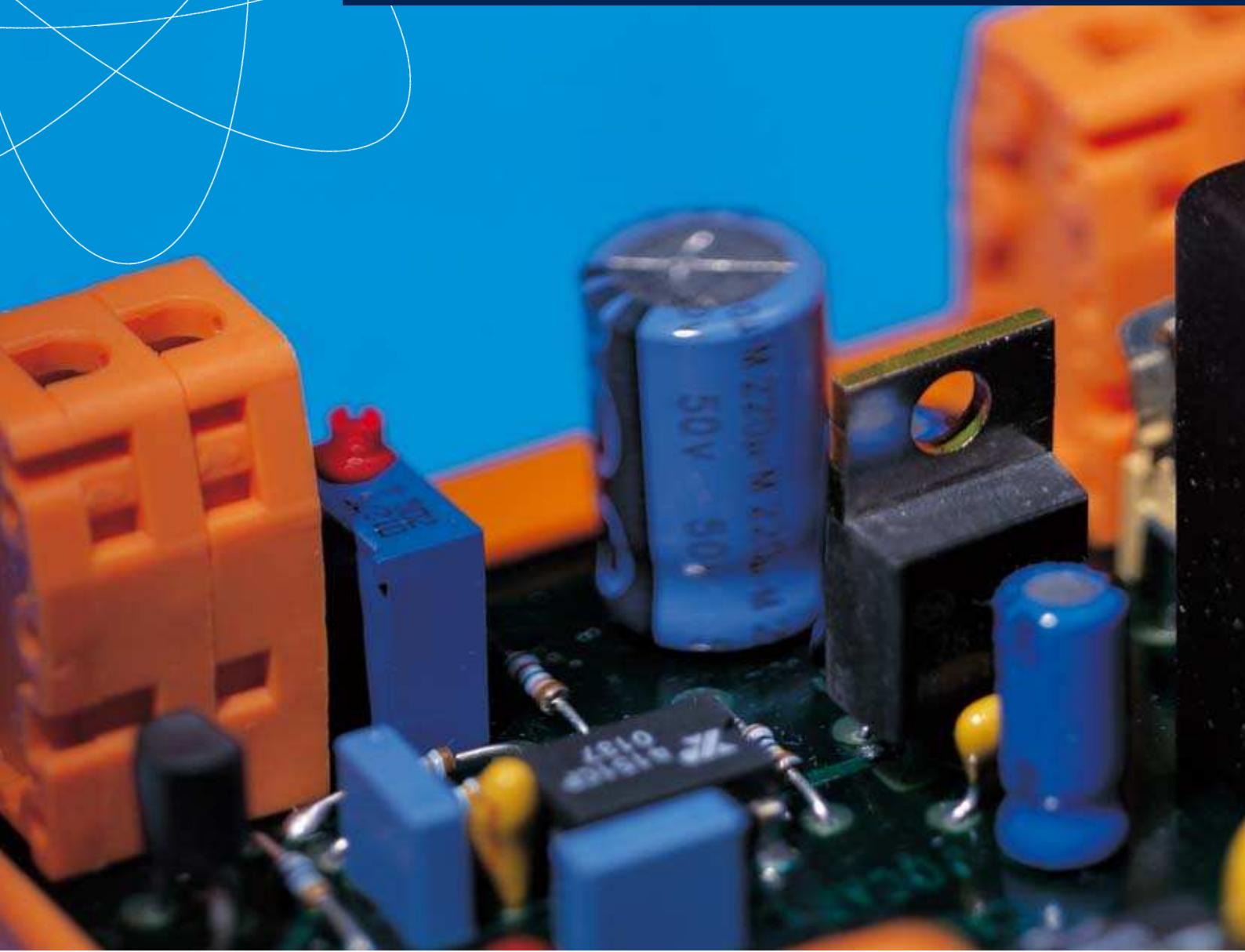


CONTA ELECTRONICS



CONTA-ELECTRONICS
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CONTA-CLIP

The Company

We are your global partner for electrical and electronic connection technology, customised system solutions and marking components.

CONTA-CLIP is the perfect solution for anyone in the electrical technology business, and for good reason.

CONTA-CLIP has been developing products for control and automation engineering for decades.

With its resolute product development and pricing strategies, **CONTA-CLIP** is able to offer a comprehensive line of connection systems, electronic functional modules and marking solutions. For years, **CONTA-CLIP** has been an established name in systems and mechanical engineering. This has been achieved through exceptional levels of versatility and the highest standards of quality.

CONTA-CLIP products are tested and certified by all well-known certifying institutes around the world. In order to ensure that our products remain at the cutting edge of technological development, we have been successfully cooperating for years with experts at TÜV Rheinland Product Safety GmbH. They test our products to ensure conformity with international (IEC) and European standards (EN). These tests are docu-

mented in inspection reports. At the beginning of 1994, our company was certified for the first time to DIN ISO 9001 by the DQS, an independent, German based institute for quality management system certification. In 2004, we successfully gained certification in accordance with DIN ISO 9001/2000.

We have provided objective proof that we are in full control of the technical, administrative and human factors that influence the quality of our products and services. Within the framework of our continually growing marketing network, our top quality products and services are being offered in all of the key world markets.

Our company philosophy is characterised by clear-cut principles! Our qualified and motivated staff is our company's most important asset in our quest for success. The company management supports and demands initiative and commitment. This results in a high level of individual responsibility. That in turn enables us to recognise customer-requirements and market trends at an early stage and respond with high-quality **CONTA-CLIP** product solutions.

Over many years, a corporate culture has developed whose most important virtues are reliability, fairness and loyalty – a corporate culture that is mirrored in our motto – *“Technology that connects”*.



CONTA-CLIP

on the Internet

You can find all about product innovations, trade fair appointments, press releases, and more at our official **CONTA-CLIP** web site.

If you want to make sure you do not miss any news, then subscribe with no obligation to our **CONTA-CLIP** newsletter by e-mail.

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CONTA-CLIP

Overview

CONTA-CLIP: for many years, this name has stood for innovative products in the field of mechanical and systems engineering. With its wide variety of electrical connection system products, **CONTA-CLIP** has been the industry partner for decades. You can find solutions to your applications quickly by using the clear organization in our catalogs, which divide the products into three areas.

CONTA-CONNECT

- Connection level for the switchgear cabinet and control engineering
- Tools for working with conductors and cables
- Branch and terminal housing in a variety of designs and materials
- **CONTA-LABEL** marking systems for labeling terminal blocks, devices, conductors and cables

CONTA-CON

- Connection level for the PCB
- PCB terminals and PCB connectors

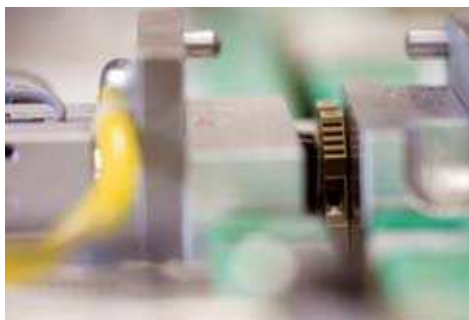
CONTA-ELECTRONICS

- Passive and active coupling level for analog and digital signals

Our workers and production facilities are your guarantee for permanent and continuous quality. This quality has been repeatedly proven to be a level above the national and international certifications of well-known testing institutions.





The plastic materials that we use are specialized for the demands of electro-technical systems, and are free from toxic contaminants.

You are assured of a trouble-free electrical connection because of our combination of materials which are specially fit to each other, and the high quality surfaces of the metal parts.



CONTA-ELECTRONICS

Product Overview

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CONTA-ELECTRONICS

Product Overview

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**Solid-state compact PSC
Solid-state terminals, tension-spring connection**



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**Solid-state compact PSC
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**Opto-coupler modules
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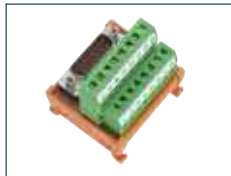
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**Interface modules
RJ 45 USB**



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**Interface modules
SD... C**



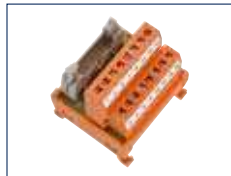
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**Interface modules
SD**



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**Interface modules
FBK... C**













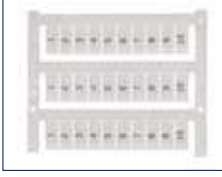


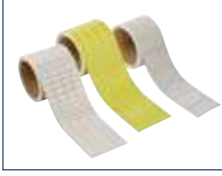



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**Interface modules
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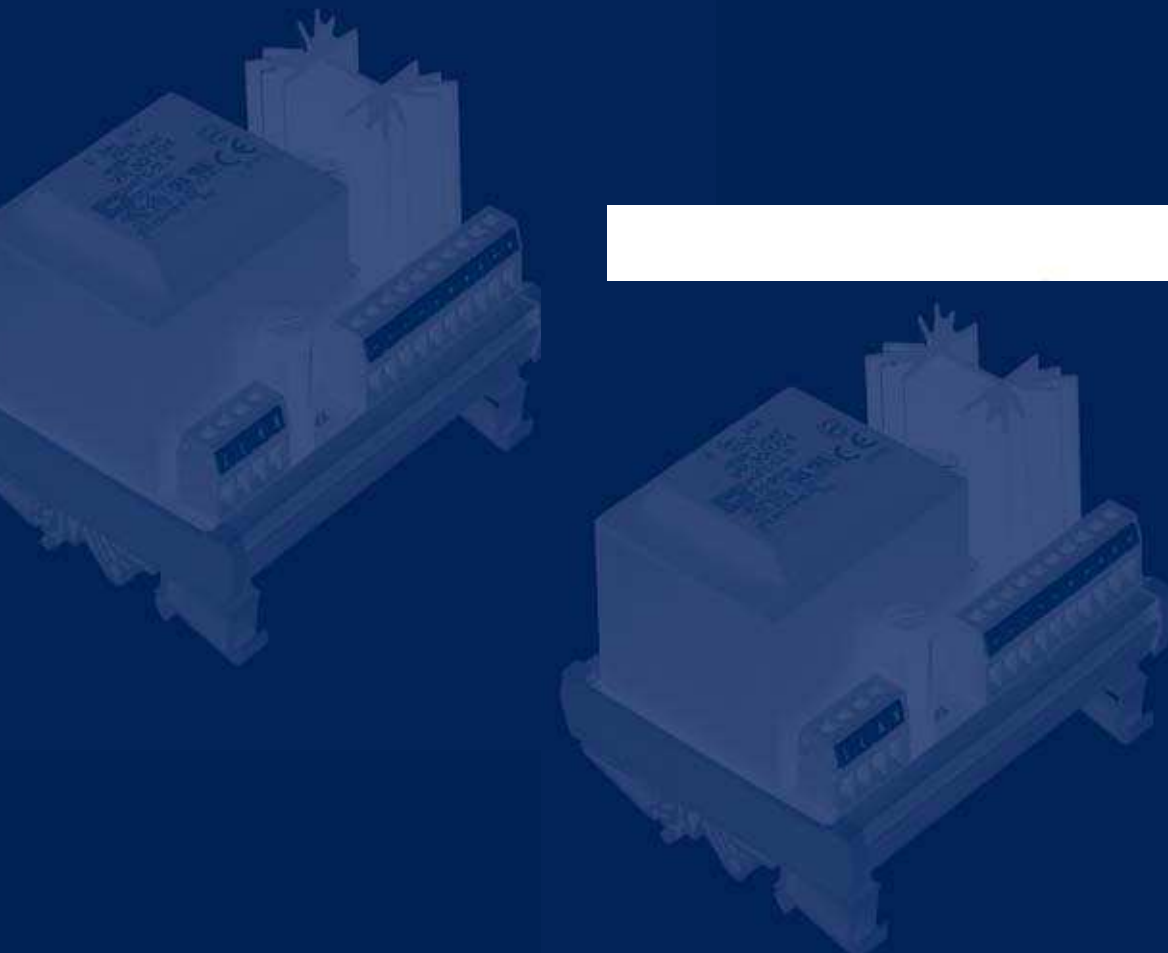
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|--|---|--|---|---|
| | Interface modules OE-E | EDAC accessories | Temperature converter units CML-PT100-UI | Voltage and current converter units CML-UI-UI |
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| | Device and installation markers Adhesive device labels GKE | Device and installation markers GKE adhesive device labels on DIN A4 sheets | | |
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DC Power Supplies

The 24 V DC control voltage has come to globally dominate in systems and machines in automation engineering, in the DC power supplies for encoders, input signals, actuators and electronic components. However the voltage range from 6 V DC to 60 V DC is also required for analog and digital signals in various control schemes.

The functionality of an electronic control is largely dependent on the reliability of its corresponding power supply. A stable and safe power and voltage supply guarantees a trouble-free production process in systems and mechanical engineering.

CONTA-CLIP offers many different components: smoothed or un-smoothed transformers, unstabilized or stabilized mains power supplies, and also primary clocked power supplies.



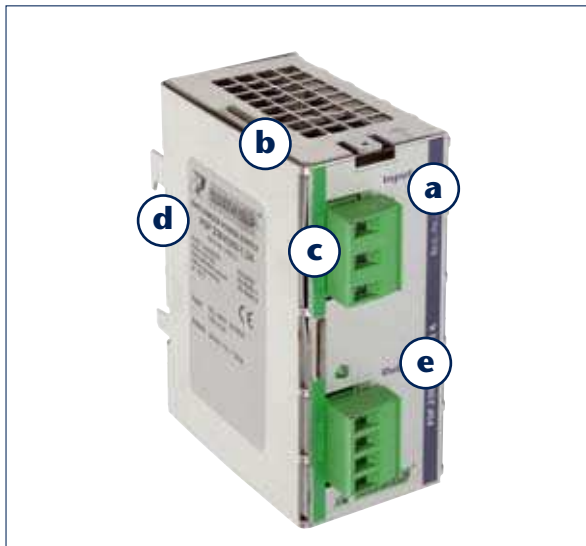
Primary Clocked DC Power Supplies PGSV

CONTA-CLIP distinguishes between one-phase and three-phase devices with the **PGSV** primary clocked DC power supplies. These are primarily accessed via a wide-range input. This wide-range input enables the **PGSV** power supplies to be globally compatible in a wide variety of applications.

In addition, this product line is characterised by high efficiency, light weight, small size. They are no-load safe, can be switched in parallel, and have outputs which are short-circuit protected.



Overview



- a** Global use with wide-range input.
- b** A sturdy metal enclosure with IP 20 protection and higher efficiency.
- c** High-quality connection terminals from **CONTA-CLIP**.
- d** Easy mounting to a TS 35 rail.
- e** Adjustable output voltage/ no-load and short-circuit safe.

Features

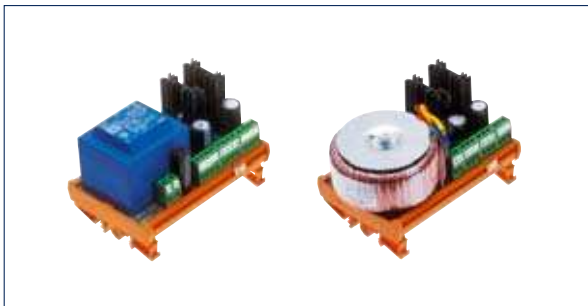
- High efficiency, light weight, and small size - achieved with primary switched-mode regulator technology.
- All-round use in grid - fulfils the high EMC demands of the residential and industrial sectors.
- Extra-low safety voltage output with non-grounded circuit for safer isolation.
- Outlet is switchable in parallel or series.
- Outlet is no-load safe and has permanent short-circuit protected.
- Overvoltage protection.

DC Power Supplies



VMG AC/DC stabilized power supply modules

VMG power supply modules convert the mains voltage from 230 V into a linear-stabilized DC voltage. They are available in varying output voltages – 5 V, 12 V, 15 V, and 24 V – with various high-performance transformers. A module is also available which features adjustable outlet voltage from 1.5 V to 26 V.



VMGS AC/DC stabilized power supply modules

VMGS power supply modules convert the mains voltage from 230 V into two linear stabilized DC voltages. They are available in various output voltages – 2 x 5 V, 2 x 12 V, 2 x 15 V, and 2 x 24 V – with varying high-performance transformers.



VMO AC/DC unstabilized power supply modules

VMO power supply modules convert the mains voltage from 230 V into a buffered DC voltage. They are available in 12 V and 24 V output voltage versions, with various high-performance transformers.



VMAC AC/AC transformer power supply modules

VMAC AC/AC power supply modules offer the simplest possibility to implement a AC control-voltage level for the switchgear cabinet. All modules are secured with a safety fuse on the primary and secondary sides. They are available in 12 V and 24 V versions, with various high-performance transformers.

DC Power Supplies



GM AC/DC rectifier modules

Rectifier modules make possible the simple conversion of existing alternating voltage into a buffered or unbuffered direct voltage.



VSTAB stabilized DC/DC converter modules

VSTAB power supply modules enable the conversion of a large alternating voltage into a smaller one. An extra power supply is no longer necessary. All modules feature a stabilized alternating voltage for output. They are available in various output voltages – 5 V, 10 V, 12 V, 15 V and 24 V – for every application.



DC-DC stabilized DC/DC converter modules

DC/DC converter modules make possible the conversion of an existing large DC voltage into a smaller DC voltage. An extra power supply is no longer necessary. All modules offer an output which is short-circuit proof. They are available in various output voltages – 5 V, 12 V, 15 V and 24 V – and also in various current strengths for every application.



ACDCG UC/DC converter modules

The **ACDCG** power supply modules convert an input-side alternating or DC voltage into an output-side linear-stabilized DC voltage. All modules offer an output which is short-circuit proof. They are available in various output voltages – 5 V, 12 V, 15 V and 24 V – for every application.

One-phase DC power supplies PGSV

One-phase primary clocked DC power supplies




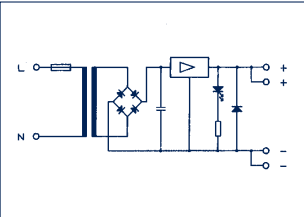
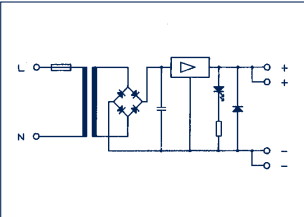
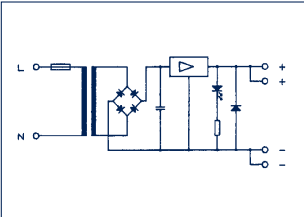
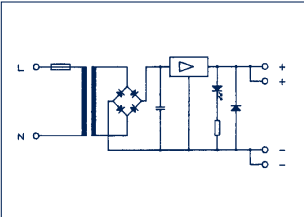
| | | | | |
|---|--|--|--|--|
| <ul style="list-style-type: none"> Mount on TS 35 Primary clocked DC power supply according to IEC 60950, DIN EN 60950, VDE 0805, UL 60950 Wide-range input Optimized for 30 to 240 watts No-load and short-circuit safe Thermal overload protection U-I characteristic curve Sturdy metal enclosure Self-cooling via natural convection in horizontal mounting position | <p>PSP 230 V/24 V-1.3 A</p>  <p>Characteristic curve</p>  <p>UE = 230V AC</p> | <p>PSP 230 V/24 V-2.5 A</p>  <p>Characteristic curve</p>  <p>UE = 230V AC</p> | <p>PSP 230 V/24 V-5 A</p>  <p>Characteristic curve</p>  <p>UE = 230V AC</p> | <p>PSP 230 V/24 V-10 A</p>  <p>Characteristic curve</p>  <p>UE = 230V AC</p> |
| <p>Type Cat. no./Qty. p.pck. Connection type Size (L x W x H) with TS 35 x 7.5 Weight Mechanical design Fastening to rail Cooling Shockproof Enclosure Protection Protect. class Electrical design Prim. clocked switched power adapter Electrical safety Disturbance emission Interference immunity Test voltage Ambient temperature Storage temperature Efficiency Thermal overload protection No-load and short-circuit safe Input circuit Input voltage Input voltage range Frequency Input current (230V AC) Inrush current Mains failure bridging Overvoltage protection Connection cross-section Connections Output circuit Output voltage Output voltage range Output current Ripple Current limitation Connection cross-section Connections</p> | <p>PSP 230 V/24 V-1.3 A 15193.2/1 connector 78 x 40 x 95 mm 300 g TS 35 (EN 50022) self-cooling VBG 4 encapsulated for use in switch cabinet IP 20 I acc. to VDE 0805, DIN EN 60950, IEC 60950, UL 60950 EN 50081-1 (residential) EN 50082-2 (industrial) 4 kV 0 to +50°C -25 to +85°C 78 % yes yes 230 V AC 90-264 V AC 50-60 Hz 0.3A typ. < 10 As typ. > 20 ms at rated voltage varistor in primary circuit 2.5 mm² connector 24 V DC, SELV - 1.3 A DC < 100 m Vss see characteristic curve 2.5 mm² connector</p> | <p>PSP 230 V/24 V-2.5 A 15194.2/1 connector 130 x 56 x 112 mm 700 g TS 35 (EN 50022) self-cooling VBG 4 encapsulated for use in switch cabinet IP 20 I acc. to VDE 0805, DIN EN 60950, IEC 60950, UL 60950 EN 50081-1 (residential) EN 50082-2 (industrial) 4 kV 0 to +60°C -25 to +85°C 81 % yes yes 230 V AC 90-264 V AC 50-60 Hz 0.6 A typ. < 10 As typ. > 20 ms at rated voltage varistor in primary circuit 2.5 mm² connector 24 V DC, SELV 22-28.8 V DC, adjustable 2.5 A DC < 100 m Vss see characteristic curve 2.5 mm² connector</p> | <p>PSP 230 V/24 V-5 A 15195.2/1 connector 130 x 71 x 112 mm 900 g TS 35 (EN 50022) self-cooling VBG 4 encapsulated for use in switch cabinet IP 20 I acc. to VDE 0805, DIN EN 60950, IEC 60950, UL 60950 EN 50081-1 (residential) EN 50082-2 (industrial) 4 kV 0 to +50°C -25 to +85°C 82 % yes yes 230 V AC 90-264 V AC 50-60 Hz 1.2 A typ. < 10 As typ. > 20 ms at rated voltage varistor in primary circuit 2.5 mm² connector 24 V DC, SELV 22-28.8 V DC, adjustable 5.0 A DC < 100 m Vss see characteristic curve 2.5 mm² connector</p> | <p>PSP 230 V/24 V-10 A 15337.2/1 connector 95 x 115 x 120 mm 1,100 g TS 35 (EN 50022) self-cooling VBG 4 encapsulated for use in switch cabinet IP 20 I acc. to VDE 0805, DIN EN 60950, IEC 60950, UL 60950 EN 50081-1 (residential) EN 50082-2 (industrial) 4 kV 0 to +50°C -25 to +85°C 83 % yes yes 230 V AC 97-130/195-264 V AC 50-60 Hz 2.5 A typ. < 30 As typ. > 20 ms at rated voltage varistor in primary circuit 2.5 mm² connector 24 V DC, SELV 22-28.8 V DC, adjustable 10.0 A DC < 100 m Vss see characteristic curve 2.5 mm² connector</p> |

Three-phase DC power supplies PGSV

Three-phase primary clocked DC power supplies



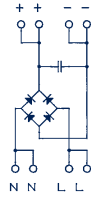
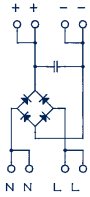
| | PSP 500 V/24 V-10 A | PSP 500 V/24 V-20 A | PSP 500 V/24 V-40 A | |
|---|---|--|---|--|
| <ul style="list-style-type: none"> Mount on TS 35 Primary clocked DC power supply acc. to IEC 60950, DIN EN 60950, VDE 0805, UL 60950 Wide-range input Optimized for 120 to 960 watts No-load and short-circuit safe Thermal overload protection U-I characteristic curve Sturdy metal enclosure Self-cooling via natural convection in horizontal mounting position |  | | | |
| | Characteristic curve  UE = 500 V AC | Characteristic curve  UE = 500 V AC | Characteristic curve  UE = 500 V AC | |
| Type | PSP 500 V/24 V-10 A | PSP 500 V/24 V-20 A | PSP 500 V/24 V-40 A | |
| Cat. no./Qty. p.pck. | 15338.2/1 | 15369.2/1 | 15370.2/1 | |
| Connection type | connector | connector | connector | |
| Size (L x W x H) with TS 35 x 7.5 | 95 x 115 x 120 mm | 95 x 220 x 120 mm | 115 x 260 x 120 mm | |
| Weight | 950 g | 2.000 g | 3.800 g | |
| Mechanical design | | | | |
| Fastening to rail | TS 35 (EN 50022) | TS 35 (EN 50022) | TS 35 (EN 50022) | |
| Cooling | self-cooling | self-cooling | self-cooling | |
| Shockproof | VBG 4 | VBG 4 | VBG 4 | |
| Enclosure | encapsulated for use in switch cabinet | encapsulated for use in switch cabinet | encapsulated for use in switch cabinet | |
| Protection | IP 20 | IP 20 | IP 20 | |
| Protect. class | I | I | I | |
| Electrical design | | | | |
| Prim. clocked switched power adapter | acc. to VDE 0805, DIN EN 60950, IEC 60950, UL 60950 | acc. to VDE 0805, DIN EN 60950, IEC 60950, UL 60950 | acc. to VDE 0805, DIN EN 60950, IEC 60950, UL 60950 | |
| Electrical safety | EN 50081-1 (residential) | EN 50081-1 (residential) | EN 50081-1 (residential) | |
| Disturbance emission | EN 50082-2 (industrial) | EN 50082-2 (industrial) | EN 50082-2 (industrial) | |
| Interference immunity | 4 kV | 4 kV | 4 kV | |
| Test voltage | 0 to +50 °C | 0 to +50 °C | 0 to +50 °C | |
| Ambient temperature | -25 to +85 °C | -25 to +85 °C | -25 to +85 °C | |
| Storage temperature | 82 % | 87 % | 88 % | |
| Efficiency | yes | yes | yes | |
| Thermal overload protection | yes | yes | yes | |
| No-load and short-circuit safe | yes | yes | yes | |
| Input circuits | | | | |
| Input voltage | 3 x 500 V AC | 3 x 500 V AC | 3 x 500 V AC | |
| Input voltage range | 325 - 550 V AC | 325 - 550 V AC | 325 - 550 V AC | |
| Frequency | 50 - 60 Hz | 50 - 60 Hz | 50 - 60 Hz | |
| Input current (400 V AC) | 3 x 0.6 A typ. | 3 x 1.2 A typ. | 3 x 2.4 A typ. | |
| Inrush current | < 20 As typ. | < 30 As typ. | < 30 As typ. | |
| Mains failure bridging | > 10 ms at rated voltage | > 10 ms at rated voltage | > 10 ms at rated voltage | |
| Overvoltage protection | varistor in primary circuit | varistor in primary circuit | varistor in primary circuit | |
| Connection cross-section | 2.5 mm ² | 2.5 mm ² | 2.5 mm ² | |
| Connections | connector | connector | connector | |
| Output circuit | | | | |
| Output voltage | 24 V DC | 24 V DC | 24 V DC | |
| Output voltage range | 22.8 to 28.8 V DC, adjustable | 22.8 - 28.8 V DC, adjustable | 22.8 - 28.8 V DC, adjustable | |
| Output current | 10,0 A DC | 20,0 A DC | 40,0 A DC | |
| Ripple | < 100 m Vss | < 100 m Vss | < 100 m Vss | |
| Current limitation | see characteristic curve | see characteristic curve | see characteristic curve | |
| Connection cross-section | 2.5 mm ² | 2.5 mm ² | 6 mm ² | |
| Connections | connector | connector | connector | |

AC/DC regulated power supply modules VMG

| | VMG/5-0.8 | VMG/5-2 | VMG/12-0.5 | VMG/12-1 |
|--|--|---|--|---|
| <ul style="list-style-type: none"> Mount on TS 32/TS 35 AC/DC power supply Linear regulated on output side DC voltage VMG 1x... V DC Input voltage: 230 V AC Thermal overload protection Short-circuit safe output Other input and output voltages available on request |  <p>1</p> |  <p>2</p> |  <p>3</p> | |
| | Circuit diagram | Circuit diagram | Circuit diagram | Circuit diagram |
| |  |  |  |  |

| Type | VMG/5-0.8 | VMG/5-2 | VMG/12-0.5 | VMG/12-1 |
|-----------------------------------|--|--|--|--|
| Cat. no./Qty. p.pck. | 5880.3/1 | 5882.3/1 | 5884.3/1 | 5885.3/1 |
| Image | 1 | 3 | 1 | 2 |
| Connection type | screw-clamp | screw-clamp | screw-clamp | screw-clamp |
| Size (L x W x H) with TS 35 x 7.5 | 87 x 83 x 73 mm | 87 x 167 x 110 mm | 87 x 83 x 73 mm | 87 x 109 x 86 mm |
| Weight | 420 g | 1.105 g | 480 g | 965 g |
| General information | | | | |
| DIN-VDE specifications | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage cat. III, DIN VDE 0551 | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage cat. III, DIN VDE 0551 | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage cat. III, DIN VDE 0551 | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage cat. III, DIN VDE 0551 |
| Test voltage transformer | 4 kV | 4 kV | 4 kV | 4 kV |
| Operating temperature | -20 to +50°C | -20 to +50°C | -20 to +50°C | -20 to +50°C |
| Important notes | | | | |
| Insulation stripping length | 7 mm | 7 mm | 7 mm | 7 mm |
| Conductor cross-section | 0.2-2.5 mm ² /AWG 22-14 | 0.2-2.5 mm ² /AWG 22-14 | 0.2-2.5 mm ² /AWG 22-14 | 0.2-2.5 mm ² /AWG 22-14 |
| Input data | | | | |
| Input voltage | 230 V AC +10% | 230 V AC +10% | 230 V AC +10% | 230 V AC +10% |
| Rated consumption | 10 VA | 35 VA | 10 VA | 28 VA |
| Frequency | 50/60 Hz | 50/60 Hz | 50/60 Hz | 50/60 Hz |
| Primary fuse | 63 mA slow-acting | 0.25 A slow-acting | 63 mA slow-acting | 0.2 A slow-acting |
| Output data | | | | |
| Output voltage, ± 5% | 5 V ± 5% | 5 V ± 5% | 12 V ± 5% | 12 V ± 5% |
| Max. output current | 0.55 A | 2 A | 0.3 A | 1 A |
| Max. residual ripple | < 40 mV pp | < 60 mV pp | < 40 mV pp | < 40 mV pp |
| Short-circuit safe | yes | yes | yes | yes |

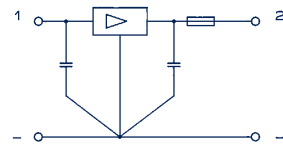
AC/DC rectifier modules GM

| | | |
|--|--|--|
| <ul style="list-style-type: none"> · Mount on TS 32/TS 35 · 2A and 4A versions · Buffer capacitor circuitry in output circuit · Buffered DC output voltage | <p>GM 1 A/C</p>  | <p>GM 1-4 A/C</p>  |
| | <p>Circuit diagram</p> | <p>Circuit diagram</p> |
| |  |  |
| <p>Type</p> | <p>GM 1 A/C</p> | <p>GM 1-4 A/C</p> |
| <p>Cat. no./Qty. p.pck.</p> | <p>6144.2/1</p> | <p>6999.0/1</p> |
| <p>Connection type</p> | <p>screw-clamp</p> | <p>screw-clamp</p> |
| <p>Size (L x W x H) with TS 35 x 7.5</p> | <p>87 x 30 x 57 mm</p> | <p>87 x 65 x 105 mm</p> |
| <p>Weight</p> | <p>84 g</p> | <p>186 g</p> |
| <p>General information</p> | <p>DIN EN 50178, DIN VDE 0110,</p> | <p>DIN EN 50178, DIN VDE 0110,</p> |
| <p>DIN-VDE specifications</p> | <p>pollution degree 2, overvoltage category III</p> | <p>pollution degree 2, overvoltage category III</p> |
| <p>Operating temperature</p> | <p>-20 to +50°C</p> | <p>-20 to +50°C</p> |
| <p>Important notes</p> | | |
| <p>Insulation stripping length</p> | <p>7 mm</p> | <p>7 mm</p> |
| <p>Conductor cross-section</p> | <p>0.2-2.5 mm²/AWG 22-14</p> | <p>0.2-2.5 mm²/AWG 22-14</p> |
| <p>Input data</p> | | |
| <p>Max. input voltage</p> | <p>28 V AC</p> | <p>28 V AC</p> |
| <p>Output data</p> | | |
| <p>Max. current</p> | <p>2 A</p> | <p>4 A</p> |
| <p>Buffer capacitor</p> | <p>4700 µF</p> | <p>10000 µF</p> |
| | | |
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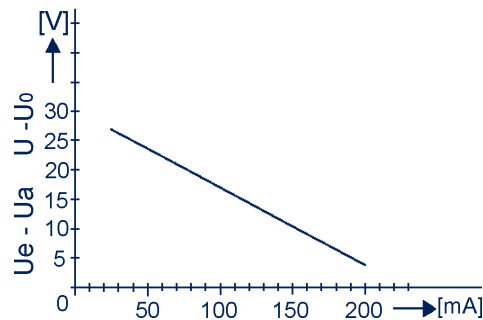
DC/DC stabilized converter modules VSTAB

- Mount on TS 32/TS 35
- Compact design
- DC/DC power supply
- Output voltages: 5,10,15, and 24 V DC
- Other input and output voltages available on request
- VSTAB 24 also available with AC input voltage

VSTAB 5
VSTAB 10
VSTAB 12
VSTAB 15
VSTAB 24

Circuit diagram


| Type | VSTAB 5 6139.2/1 | VSTAB 10 6140.2/1 | VSTAB 12 6141.2/1 | VSTAB 15 6142.2/1 | VSTAB 24 6143.2/1 |
|-----------------------------------|--|--|--|--|--|
| Cat. no./Qty. p.pck. | | | | | |
| Connection type | screw-clamp | screw-clamp | screw-clamp | screw-clamp | screw-clamp |
| Size (L x W x H) with TS 35 x 7.5 | 87 x 24 x 57 mm | 87 x 24 x 57 mm | 87 x 24 x 57 mm | 87 x 24 x 57 mm | 87 x 24 x 57 mm |
| Weight | 45 g | 45 g | 45 g | 45 g | 45 g |
| General information | | | | | |
| DIN-VDE specifications | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III, DIN VDE 0551 | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III, DIN VDE 0551 | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III, DIN VDE 0551 | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III, DIN VDE 0551 | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III, DIN VDE 0551 |
| Operating temperature | -20 to +50 °C | -20 to +50 °C | -20 to +50 °C | -20 to +50 °C | -20 to +50 °C |
| Important notes | | | | | |
| Insulation stripping length | 7 mm | 7 mm | 7 mm | 7 mm | 7 mm |
| Conductor cross-section | 0.2-2.5 mm ² | 0.2-2.5 mm ² | 0.2-2.5 mm ² | 0.2-2.5 mm ² | 0.2-2.5 mm ² |
| Input data | | | | | |
| Input voltage | 8 to 35 V DC | 13 to 35 V DC | 15 to 35 V DC | 18 to 35 V DC | 27 to 35 V DC |
| Max. current | 0.2 A | 0.2 A | 0.2 A | 0.2 A | 0.2 A |
| Voltage-current diagram | | | | | |



| Output data | VSTAB 5 | VSTAB 10 | VSTAB 12 | VSTAB 15 | VSTAB 24 |
|----------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Output voltage, ± 5% | 5 V DC | 10 V DC | 12 V DC | 15 V DC | 24 V DC |
| Fuse | 0.25 A slow-acting (5 x 20 mm) | 0.25 A slow-acting (5 x 20 mm) | 0.25 A slow-acting (5 x 20 mm) | 0.25 A slow-acting (5 x 20 mm) | 0.25 A slow-acting (5 x 20 mm) |
| Residual ripple | < 50 mV | < 50 mV | < 50 mV | < 50 mV | < 50 mV |
| Max. output current | 0.2 A | 0.2 A | 0.2 A | 0.2 A | 0.2 A |
| Short-circuit safe | yes | yes | yes | yes | yes |

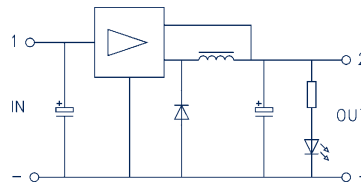
Stabilized DC/DC converter modules DC-DC

- Mount on TS 32/TS 35
- DC/DC converter
- Short-circuit safe output
- LED indicator for displaying operational status
- Version with variable output voltage (DC/DC/ADJ-3) available on request

DC-DC/5-0.5 DC-DC/10-0.5 DC-DC/12-0.5 DC-DC/15-0.5 DC-DC/24-0.5



Circuit diagram



| Type | DC-DC/5-0.5 | DC-DC/10-0.5 | DC-DC/12-0.5 | DC-DC/15-0.5 | DC-DC/24-0.5 |
|-----------------------------------|--|--|--|--|--|
| Cat. no./Qty. p.pck. | 7791.2/1 | 6810.0/1 | 7792.2/1 | 7793.2/1 | 1343.9/1 |
| Connection type | screw-clamp | screw-clamp | screw-clamp | screw-clamp | screw-clamp |
| Size (L x W x H) with TS 35 x 7.5 | 87 x 18 x 57 mm | 87 x 18 x 57 mm | 87 x 18 x 57 mm | 87 x 18 x 57 mm | 87 x 18 x 57 mm |
| Weight | 39 g | 39 g | 39 g | 39 g | 39 g |
| General information | | | | | |
| DIN-VDE specifications | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III |
| Efficiency | 75 % | 80 % | 80 % | 85 % | 85 % |
| Switching frequency | 50 kHz | 50 kHz | 50 kHz | 50 kHz | 50 kHz |
| Operating temperature | 0 to +50°C | 0 to +50°C | 0 to +50°C | 0 to +50°C | 0 to +50°C |
| Important notes | | | | | |
| Insulation stripping length | 7 mm | 7 mm | 7 mm | 7 mm | 7 mm |
| Conductor cross-section | 0.2-2.5mm ² /AWG 22-14 | 0.2-2.5mm ² /AWG 22-14 | 0.2-2.5mm ² /AWG 22-14 | 0.2-2.5mm ² /AWG 22-14 | 0.2-2.5mm ² /AWG 22-14 |
| Input data | | | | | |
| Input voltage | 7.5 to 40 V DC | 14.5 to 40 V DC | 14.5 to 40 V DC | 17.5 to 40 V DC | 25.5 to 40 V DC |
| Neutral load current | 5 mA | 5 mA | 5 mA | 5 mA | 5 mA |
| Input current with max. load | 475 mA | 480 mA | 480 mA | 485 mA | 485 mA |
| Output data | | | | | |
| Output voltage | 5 V DC ± 5 % | 10 V DC ± 5 % | 12 V DC ± 5 % | 15 V DC ± 5 % | 24 V DC ± 5 % |
| Max. power | 2.5 W | 5 W | 6 W | 7.5 W | 6 W |
| Max. current | 500 mA | 500 mA | 500 mA | 500 mA | 250 mA |
| Short-circuit current | 900 mA | 900 mA | 900 mA | 900 mA | 900 mA |
| Residual ripple | < 100 mV | < 100 mV | < 100 mV | < 100 mV | < 125 mV |
| Short-circuit safe | yes | yes | yes | yes | yes |

AC/DC converter modules ACDCG

- Mount on TS 32/TS 35
- AC or DC input
- Linear regulated DC voltage on output side
- Short-circuit safe output
- Green LED indicator for displaying operational status
- Other input and output voltages available on request

ACDCG/5-1.5



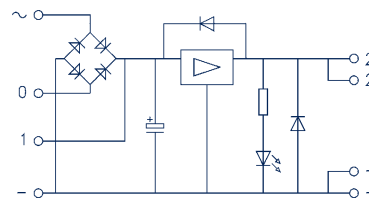
ACDCG/12-1.5

ACDCG/15-1.5

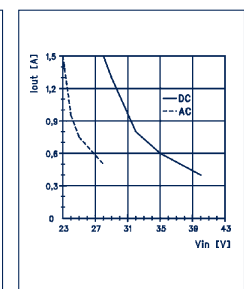
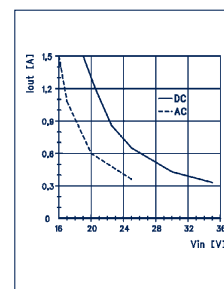
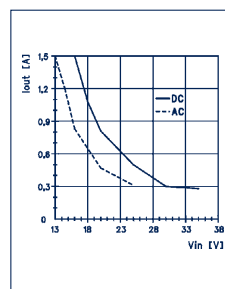
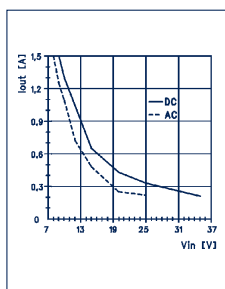


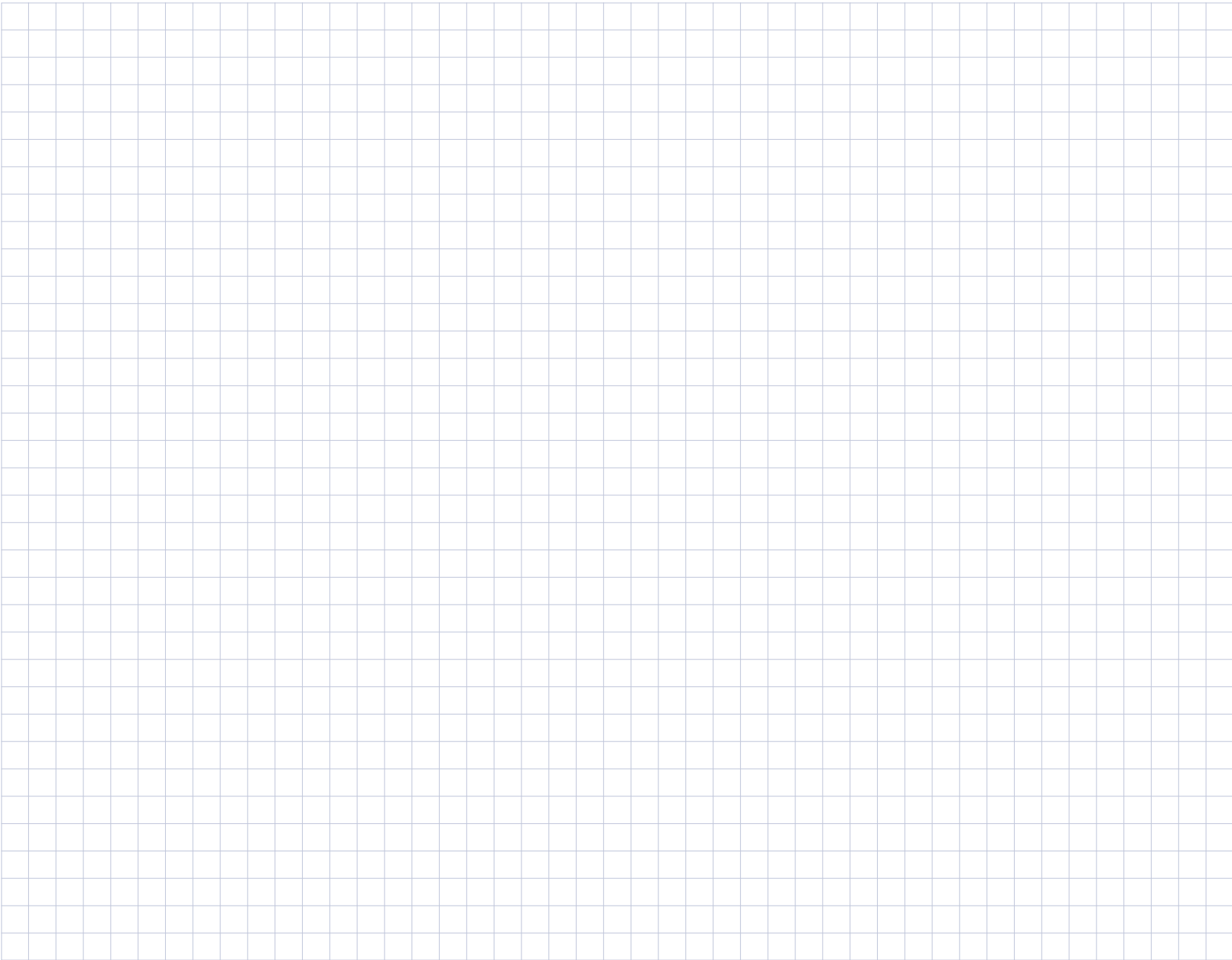
ACDCG/24-1.5

Circuit diagram



| Type | ACDCG/5-1.5 | ACDCG/12-1.5 | ACDCG/15-1.5 | ACDCG/24-1.5 |
|---|--|--|--|--|
| Cat. no./Qty. p.pck. | 15024.2/1 | 15025.2/1 | 15026.2/1 | 15027.2/1 |
| Connection type | screw-clamp | screw-clamp | screw-clamp | screw-clamp |
| Size (L x W x H) with TS 35 x 7.5 | 87 x 54 x 87 mm | 87 x 54 x 87 mm | 87 x 54 x 87 mm | 87 x 54 x 87 mm |
| Weight | 150 g | 150 g | 150 g | 150 g |
| General information | | | | |
| DIN-VDE specifications | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III |
| Operating voltage indicator (LED) | green | green | green | green |
| Operating temperature | -20 to +50°C | -20 to +50°C | -20 to +50°C | -20 to +50°C |
| Important notes | | | | |
| Insulation stripping length | 7 mm | 7 mm | 7 mm | 7 mm |
| Conductor cross-section | 0.2-2.5 mm ² /AWG 22-14 | 0.2-2.5 mm ² /AWG 22-14 | 0.2-2.5 mm ² /AWG 22-14 | 0.2-2.5 mm ² /AWG 22-14 |
| Input data | | | | |
| DC input voltage | 7.5 to 35 V DC | 14.5 to 35 V DC | 17.5 to 35 V DC | 26.5 to 35 V DC |
| AC input voltage | 8 to 25 V AC | 13 to 25 V AC | 16 to 25 V AC | 23 to 28 V AC |
| Rated power consumption | 14 W @ 9 V DC 20 VA @ 8 V AC | 25 W @ 16 V DC 31 VA @ 13 V AC | 29 W @ 19 V DC 38 VA @ 16 V AC | 43 W @ 28 V DC 55 VA @ 23 V AC |
| Frequency | 50/60 Hz | 50/60 Hz | 50/60 Hz | 50/60 Hz |
| Output data | | | | |
| Output voltage, ± 5% | 5 V DC | 12 V DC | 15 V DC | 24 V DC |
| Max. output current | 1.5 A, see diagram | 1.5 A, see diagram | 1.5 A, see diagram | 1.5 A, see diagram |
| Residual ripple | < 50 mV | < 50 mV | < 50 mV | < 50 mV |
| Short-circuit safe | yes | yes | yes | yes |
| Derating curve (Input voltage vs. output current) | | | | |





Overvoltage Protection CONTA-PROTECT

When choosing the correct device for overvoltage protection, it is important to consider the regulations VDE 110-1, IEC 61643-1, EN 61643-331 and VDE 0185 section 100. These deal with surge-voltage resistance, insulation, and lightning protection classes.

CONTA-CLIP protection components meet the VDE and IEC requirements, and sometimes go beyond them. The new solutions from **CONTA-CLIP** offer many advantages to the user.



Overvoltage Protection CONTA-PROTECT



Overvoltage arrester CP DS 250 VG

The CP DS 250 VG overvoltage arrester, from arrester class B | C | D (TYPE 1 | 2 | 3), enables reliable protection of electrical distributor facilities. The **CP DS 250 VG**, with its one-piece design, is available with remote signaling for a potential-free CO contact. When an overload occurs, the integrated monitoring unit signals this: the visible outer label field turns red, thus showing that it must be replaced as soon as possible. The **CP DS 250 VG** overvoltage arrester is equipped with a dual-function terminal. This allows it to be connected to live conductors or to comb rails.



Overvoltage arresters CP 5 and CP 5 H

The **CP 5** and **CP 5 H** overvoltage arresters, from arrester class 2 (C) enable reliable protection of electrical facilities. The **CP 5**, with its one-piece design, is also available as the **CP 5 H** with remote signaling for a potential-free CO contact. When an overload occurs, the integrated monitoring unit signals this: the visible outer label field turns red, thus showing that it must be replaced as soon as possible.

The **CP 5** and **CP 5 H** overvoltage arresters are equipped with a dual-function terminal. This allows it to be connected to live conductors or to comb rails.



Overvoltage arresters CP V 40 and CP VH 40

The **CP V 40** and **CP VH 40** overvoltage arresters, from arrester class 2 (C) enable reliable protection of electrical facilities. The **CP V 40**, with its two-piece design, is also available as the **CP VH 40** with remote signaling for a potential-free CO contact. When an overload occurs, the integrated monitoring unit signals this: the visible outer label field turns red, thus showing that it must be replaced as soon as possible. The **CP V 40** and **CP VH 40** overvoltage arresters are equipped with a dual-function terminal. This allows them to be connected to live conductors or to comb rails.



Overvoltage arresters CP V 10 and CDS VH 98

The **CP V 10** and **CDS 98** overvoltage arresters, from arrester class 3 (D) enable reliable overvoltage protection of power-supply lines within switchgear and control cabinets. The **CDS 98** has a one-piece design. The **CP V 10** is two-piece. When an overload occurs, the integrated monitoring unit signals this: the visible outer label field of the **CP V 10** arrester turns red, thus showing that it must be replaced as soon as possible. The **CDS 98** overvoltage arrester signals the overload by means of a glow lamp.

Overvoltage Protection CONTA-PROTECT

Overvoltage arresters, type 1|2|3| (B|C|D)

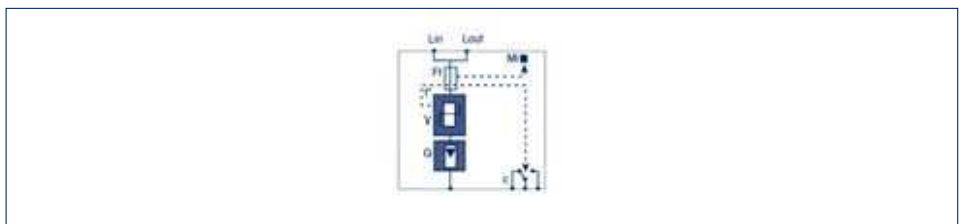
- Mount on TS 35
- Screw connection
- Overvoltage protection arrester
- Type 1|2|3 (class B|C|D) in one device
- Remote signaling contact

V: High-energy varistor block
 G: Switching-spark gap
 Ft: Thermal fuse
 C: Remote signaling contact
 t°: Thermal separator
 MI: Error display

CP DS 250 VG



Circuit diagram



1-pole type
Cat. no./Qty. p.pck.

Size (L x W x H) with TS 35 x 7.5
 Weight

Arrester | Class

Technical data

| | |
|---|------------------------|
| Rated voltage | 230 V AC |
| Max. operating voltage | 330 V AC |
| Uninterrupted current | 0,01 A |
| Follow-on current | none |
| Rated discharge surge current (8/20) µs | 30 kA |
| Max. discharge surge current (8/20) µs | 70 kA |
| Lightning surge current (10/350) s | 25 kA |
| Response time | 20 ns |
| Residual voltage | 0.8 kV |
| Temperature range | -40 to +80°C |
| Protection | IP 20 |
| Max. series fuse | 250 A gl/gG |
| Protection level | 1.5 kV |
| Rail assembly | TS 35 |
| Connection cross-section | 2.5-50 mm ² |
| Flammability class | UL 94 V-0 |

CP DS 250 VG remote signaling contact

| | |
|--------------------------|-------------------------|
| Remote signaling contact | CO contact |
| Switching capacity, AC | 250 V /0.5 A |
| Connection cross-section | max 1.5 mm ² |

Accessories

| | |
|-----------------------------|-------------------|
| Earth bridge CP E | CP 250 E-4 |
| Cat. no./Qty. p.pck. | 15616.2/1 |

CP DS 250 VG

15617.2/1
 90 x 36 x 68.4 mm
 238 g

Type 1|2|3 B|C|D

Features

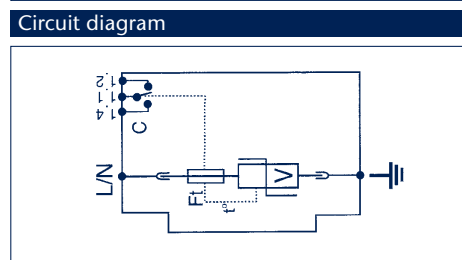
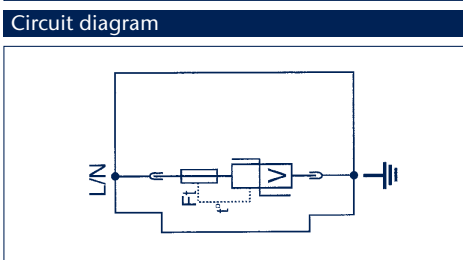
- Reliable overvoltage protection for use in main and sub-distribution with low-voltage levels of 230 V/ 400 V.
- Arrester, class 1|2|3 (B|C|D)
- Signals a failure via a red label field.
- Multi-pole versions can be constructed by using external insulated earth bridges.
- The CP DS 250 VG is equipped with a potential-free CO contact for remote diagnosis.

Overvoltage Protection CONTA-PROTECT

Overvoltage arresters, type 2 (C)

- Mount on TS 35
- Screw connection
- Overvoltage protection arrester
- Type 2 (class C)
- Remote signaling contact (CP 5 H)

V: High-energy varistor block
 Ft: Thermal fuse
 C: Remote signaling contact
 t°: Thermal separator



| | | |
|---|-------------------------|--------------------------|
| 1-pole type | CP 5 | CP 5 H |
| Cat. no./Qty. p.pck. | 15469.2/10 | 15470.2/10 |
| Size (L x W x H) with TS 35 x 7.5 | 90 x 18 x 68.4 mm | 97.5 x 18 x 68.4 mm |
| Weight | 75 g | 102 g |
| Arrester Class | Type 2 Class C | Type 2 Class C |
| Technical data | | |
| Rated voltage | 230 V AC | 230 V AC |
| Max. operating voltage | 320 V AC | 320 V AC |
| Rated discharge surge current (8/20) μs | 20 kA | 20 kA |
| Max. discharge surge current (8/20) μs | 40 kA | 40 kA |
| Response time | ≤ 25 ns | ≤ 25 ns |
| Residual voltage | 1.6 kV | 1.6 kV |
| Temperature range | -40 to +80°C | -40 to +80°C |
| Protection | IP 20 | IP 20 |
| Max. series fuse | 125 A gl | 125 A gl |
| Rail assembly | TS 35 | TS 35 |
| Connection cross-section | 4-25 mm ² | 4-25 mm ² |
| Flammability class | UL 94 V-0 | UL 94 V-0 |
| CP 5 H remote signaling contact | | |
| Remote signaling contact | - | CO contact |
| Switching capacity, AC | - | 250 V/0.5 A |
| Connection cross-section | - | max. 1.5 mm ² |
| Accessories | | |
| Spare plugging unit | - | - |
| Cat. no./Qty. p.pck. | CP 5 E-4 | CP 5 E-4 |
| Earth bridge CP E | 15602.2/1 | 15602.2/1 |
| Cat. no./Qty. p.pck. | | |

Features

- Reliable overvoltage protection for use in main and sub-distribution with low-voltage levels of 230 V/ 400 V.
- Arrester, class C (Type 2 | mid-level protection)
- Signals a failure via a red label field.
- Multi-pole versions can be constructed by using external insulated earth bridges.
- The CP 5 H is also equipped with a potential-free CO contact for remote diagnosis.

Overvoltage Protection CONTA-PROTECT

Overvoltage arresters, type 2 (C)

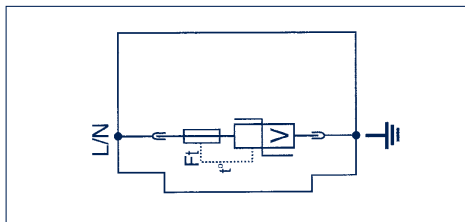
- Mount on TS 35
- Screw connection
- Overvoltage protection arrester
- Type 2 (class C)
- Pluggable protective elements
- Remote signaling contact (CP VH 40)

V: High-energy varistor block
 Ft: Thermal fuse
 C: Remote signaling contact
 t°: Thermal separator

CP V 40



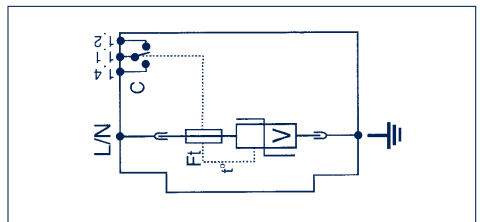
Circuit diagram



CP VH 40



Circuit diagram



| | |
|--|----------------------|
| 1-pole type | |
| Cat. no./Qty. p.pck. | |
| Size (L x W x H) with TS 35 x 7.5 | |
| Weight | |
| Arrester Class | |
| Technical data | |
| Rated voltage | 230 V AC |
| Max. operating voltage | 320 V AC |
| Rated discharge surge current (8/20) μs | 20 kA |
| Max. discharge surge current (8/20) μs | 40 kA |
| Response time | ≤ 25 ns |
| Residual voltage | 1.3 kV |
| Temperature range | -40 to +80°C |
| Protection | IP 20 |
| Max. series fuse | 125 A gl |
| Rail assembly | TS 35 |
| Connection cross-section | 4-25 mm ² |
| Flammability class | UL 94 V-0 |
| CP VH 40 remote signaling contact | |
| Remote signaling contact | - |
| Switching capacity, AC | - |
| Connection cross-section | - |
| Accessories | |
| Spare plugging unit | CP V 40 S |
| Cat. no./Qty. p.pck. | 6864.0/1 |
| Earth bridge CP E | CP E-2 |
| Cat. no./Qty. p.pck. | 6865.0/1 |
| Earth bridge CP E | CP E-3 |
| Cat. no./Qty. p.pck. | 6866.0/1 |
| Earth bridge CP E | CP E-4 |
| Cat. no./Qty. p.pck. | 6867.0/1 |

| | |
|---|----------------------|
| CP V 40 | |
| 6862.0/1 | |
| 90 x 18 x 68.4 mm | |
| 108 g | |
| Type 2 Class C | |
| Technical data | |
| Rated voltage | 230 V AC |
| Max. operating voltage | 320 V AC |
| Rated discharge surge current (8/20) μs | 20 kA |
| Max. discharge surge current (8/20) μs | 40 kA |
| Response time | ≤ 25 ns |
| Residual voltage | 1.3 kV |
| Temperature range | -40 to +80°C |
| Protection | IP 20 |
| Max. series fuse | 125 A gl |
| Rail assembly | TS 35 |
| Connection cross-section | 4-25 mm ² |
| Flammability class | UL 94 V-0 |
| CP V 40 S | |
| 6864.0/1 | |
| CP E-2 | |
| 6865.0/1 | |
| CP E-3 | |
| 6866.0/1 | |
| CP E-4 | |
| 6867.0/1 | |

| | |
|--|--------------------------|
| CP VH 40 | |
| 6863.0/1 | |
| 97.5 x 18 x 68.4 mm | |
| 120 g | |
| Type 2 Class C | |
| Technical data | |
| Rated voltage | 230 V AC |
| Max. operating voltage | 320 V AC |
| Rated discharge surge current (8/20) μs | 20 kA |
| Max. discharge surge current (8/20) μs | 40 kA |
| Response time | ≤ 25 ns |
| Residual voltage | 1.3 kV |
| Temperature range | -40 to +80°C |
| Protection | IP 20 |
| Max. series fuse | 125 A gl |
| Rail assembly | TS 35 |
| Connection cross-section | 4-25 mm ² |
| Flammability class | UL 94 V-0 |
| CP VH 40 remote signaling contact | |
| Remote signaling contact | CO contact |
| Switching capacity, AC | 250 V / 0.5 A |
| Connection cross-section | max. 1.5 mm ² |
| CP V 40 S | |
| 6864.0/1 | |
| CP E-2 | |
| 6865.0/1 | |
| CP E-3 | |
| 6866.0/1 | |
| CP E-4 | |
| 6867.0/1 | |

Features

- Reliable overvoltage protection for use in main and sub-distribution with low-voltage levels of 230 V/ 400 V.
- Varistor technology
- Arrester, class C (Type 2 | mid-level protection)
- Signals a failure via a red label field.
- Multi-pole versions can be constructed by using external insulated earth bridges.
- The CP VH 40 is also equipped with a potential-free CO contact for remote diagnosis.

Overvoltage Protection CONTA-PROTECT

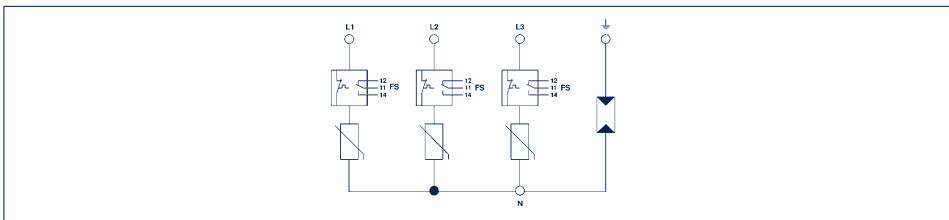
Overvoltage arresters, type 2 (C)

- Mount on TS 35
- Screw connection
- Four-pole overvoltage arrester
- Type 2 (class C)
- Pluggable protective elements
- 3+1 switching for earth-earth networks

CP VHG 40-TT



Circuit diagram



4-pole type

Cat. no./Qty. p.pck.
 Size (L x W x H) with TS 35 x 7.5
 Weight

Arrester | Class

Technical data

Rated voltage
 Max. operating voltage
 Rated discharge surge current (8/20) μ s
 Max. discharge surge current (8/20) μ s
 Response time
 Residual voltage
 Temperature range
 Protection
 Max. series fuse
 Rail assembly
 Connection cross-section
 Flammability class

CP VHG 40-TT

6868.0/1
 97.5 x 72 x 68.4 mm
 410 g

Type 2 | Class C

230 V AC
 320 V AC
 20/80 kA
 40/160 kA
 ≤ 25 ns
 1.3 kV
 -40 to +80° C
 IP 20
 125 A gl
 TS 35
 4-25 mm²
 UL 94 V-0

CP VHG 40 remote signaling contact

Remote signaling contact
 Switching capacity, AC
 Connection cross-section

3 CO contact
 250 V/0.5 A
 max. 1.5 mm²

Accessories

Spare plugging unit
Cat. no./Qty. p.pck.

CP V 40 S
6864.0/1

Features

- Reliable overvoltage protection for protection of low-voltage consumer facilities in 3 + 1 switching for use in earth-earth networks.
- On the three-pole varistor arresters, a total-load gas-filled arrester is installed on an additional pole.
- Arrester, class C (Type 2 | mid-level protection)
- Signals a defect plug unit, via a red label field (only varistor modules).
- Each varistor module is also equipped with a potential-free CO contact for remote diagnosis.

Overvoltage Protection CONTA-PROTECT

Overvoltage arresters, type 3 (D)

| | | |
|--|--|--|
| <ul style="list-style-type: none"> · Mount on TS 35 · Screw connection · 2/1-pole overvoltage protection arrester · Type 3 (class D) · Pluggable protective elements (CP V 10) · Varistor/gas-filled arrester technology | <p>CP V 10</p>  | <p>CDS 98</p>  |
| | <p>Circuit diagram</p>  | <p>Circuit diagram</p>  |
| <p>1-pole type 2-pole type Cat. no./Qty. p.pck.</p> | <p>CP V 10 6869.0/1</p> | <p>CDS 98 6471.2/1</p> |
| <p>Size (L x W x H) with TS 35 x 7.5</p> | <p>90 x 18 x 68.4 mm</p> | <p>90 x 18 x 68.4 mm</p> |
| <p>Weight</p> | <p>108 g</p> | <p>70 g</p> |
| <p>Arrester Class</p> | <p>Type 3 Class D</p> | <p>Type 3 Class D</p> |
| <p>Technical data</p> | <p>230 V AC</p> | <p>230 V AC</p> |
| <p>Rated voltage</p> | <p>320 V AC</p> | <p>275 V AC</p> |
| <p>Max. operating voltage</p> | <p>5 kA</p> | <p>5 kA</p> |
| <p>Rated discharge surge current (8/20) μs</p> | <p>10 kA</p> | <p>10 kA</p> |
| <p>Max. discharge surge current (8/20) μs</p> | <p>≤ 25 ns</p> | <p>≤ 25 ns</p> |
| <p>Response time</p> | <p>1.2 kV</p> | <p>1.2 kV</p> |
| <p>Residual voltage</p> | <p>-40 to +80°C</p> | <p>-40 to +80°C</p> |
| <p>Temperature range</p> | <p>IP 20</p> | <p>IP 20</p> |
| <p>Protection</p> | <p>16 A gl</p> | <p>125 A gl</p> |
| <p>Max. series fuse</p> | <p>TS 35</p> | <p>TS 35</p> |
| <p>Rail assembly</p> | <p>1.5-16 mm²</p> | <p>1.5-16 mm²</p> |
| <p>Connection cross-section</p> | <p>UL 94 V-0</p> | <p>UL 94 V-0</p> |
| <p>Flammability class</p> | | |
| <p>Remote signaling contact</p> | | |
| <p>Remote signaling contact</p> | <p>-</p> | <p>-</p> |
| <p>Switching capacity, AC</p> | <p>-</p> | <p>-</p> |
| <p>Connection cross-section</p> | <p>-</p> | <p>-</p> |

Features

- CP V 10**
- Two-part: base and pluggable sections
 - Protection against overvoltage on the power supply lines within the switchgear and control cabinets
 - Varistor/gas-filled arrester technology, no leakage current
 - Thermal and dynamic monitoring of the protective elements
 - Arrester disconnecter for overload, with guaranteed continued supply of power
 - Integrated monitoring display, red = replace
 - Thin design

- CDS 98**
- One-part
 - Protection against overvoltage on the power supply lines within the switchgear and control cabinets
 - Varistor/gas-filled arrester technology, no leakage current
 - Thermal and dynamic monitoring of the protective elements
 - Arrester disconnecter for overload, with guaranteed continued supply of power
 - Integrated monitoring display, red = replace
 - Thin design

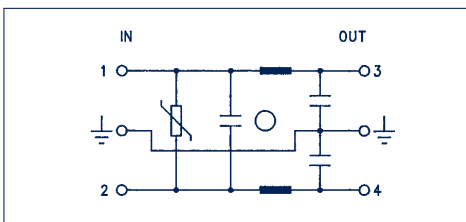
Interference-elimination link modules IF-OF

- Mount on TS 35
- Screw connection
- Suppression of symmetrical and asymmetrical interference voltages originating from mains power grid
- Overvoltage protection via integrated varistor circuitry

IF-OF/0.5 A



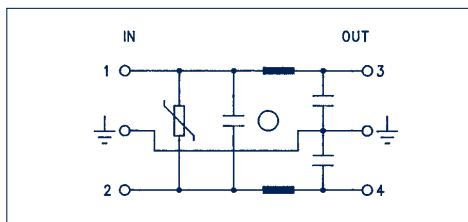
Circuit diagram



IF-OF/3 A



Circuit diagram

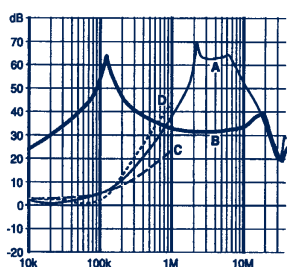


Overvoltage Protection

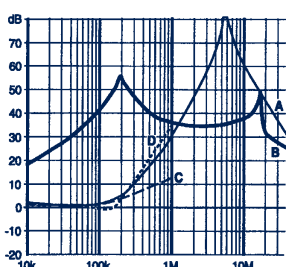
| Type | IF-OF/0.5 A | IF-OF/1 A | IF-OF/3 A | IF-OF/6 A |
|--|--|-------------------------|-------------------------|-------------------------|
| Cat. no./Qty. p.pck. | 6149.2/1 | 6150.2/1 | 6151.2/1 | 6152.2/1 |
| Size (L x W x H) with TS 35 x 7.5 | 87 x 40 x 60 mm | 87 x 40 x 60 mm | 87 x 40 x 60 mm | 87 x 40 x 60 mm |
| Weight | 89 g | 89 g | 89 g | 89 g |
| General information | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III, DIN VDE 0551 | | | |
| Operating temperature | -20 to +50°C | | | |
| Important notes | | | | |
| Insulation stripping length | 7 mm | 7 mm | 7 mm | 7 mm |
| Conductor cross-section | 0.2-2.5 mm ² | 0.2-2.5 mm ² | 0.2-2.5 mm ² | 0.2-2.5 mm ² |
| Screw connection | AWG 22-14 | AWG 22-14 | AWG 22-14 | AWG 22-14 |
| Technical data | | | | |
| Max. operating voltage | 250 V | 250 V | 250 V | 250 V |
| Max. operating frequency | 400 Hz | 400 Hz | 400 Hz | 400 Hz |
| Max. current | 0.5 A | 1 A | 3 A | 6 A |
| Throttle | 24 mH | 10 mH | 2 mH | 0.8 mH |
| Test voltage for earth phase a neutral earth | 2kV/50Hz ≥ 2s | 2kV/50Hz ≥ 2s | 2kV/50Hz ≥ 2s | 2kV/50Hz ≥ 2s |
| Leakage current | 2 x 0.2 mA | 2 x 0.2 mA | 2 x 0.2 mA | 2 x 0.2 mA |
| Throttling characteristic | | | | |

A = 50Ω/50Ω sym, B = 50Ω/50Ω asym, C = 0.1Ω/100Ω sym, D = 100Ω/0.1Ω sym

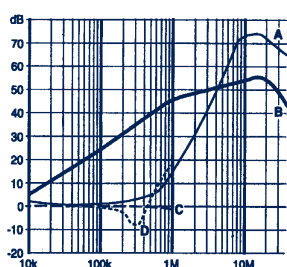
0.5 amp types



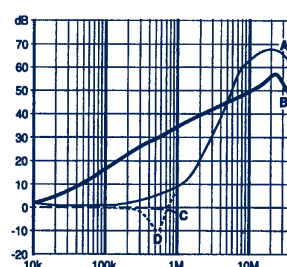
1 amp types



3 amp types

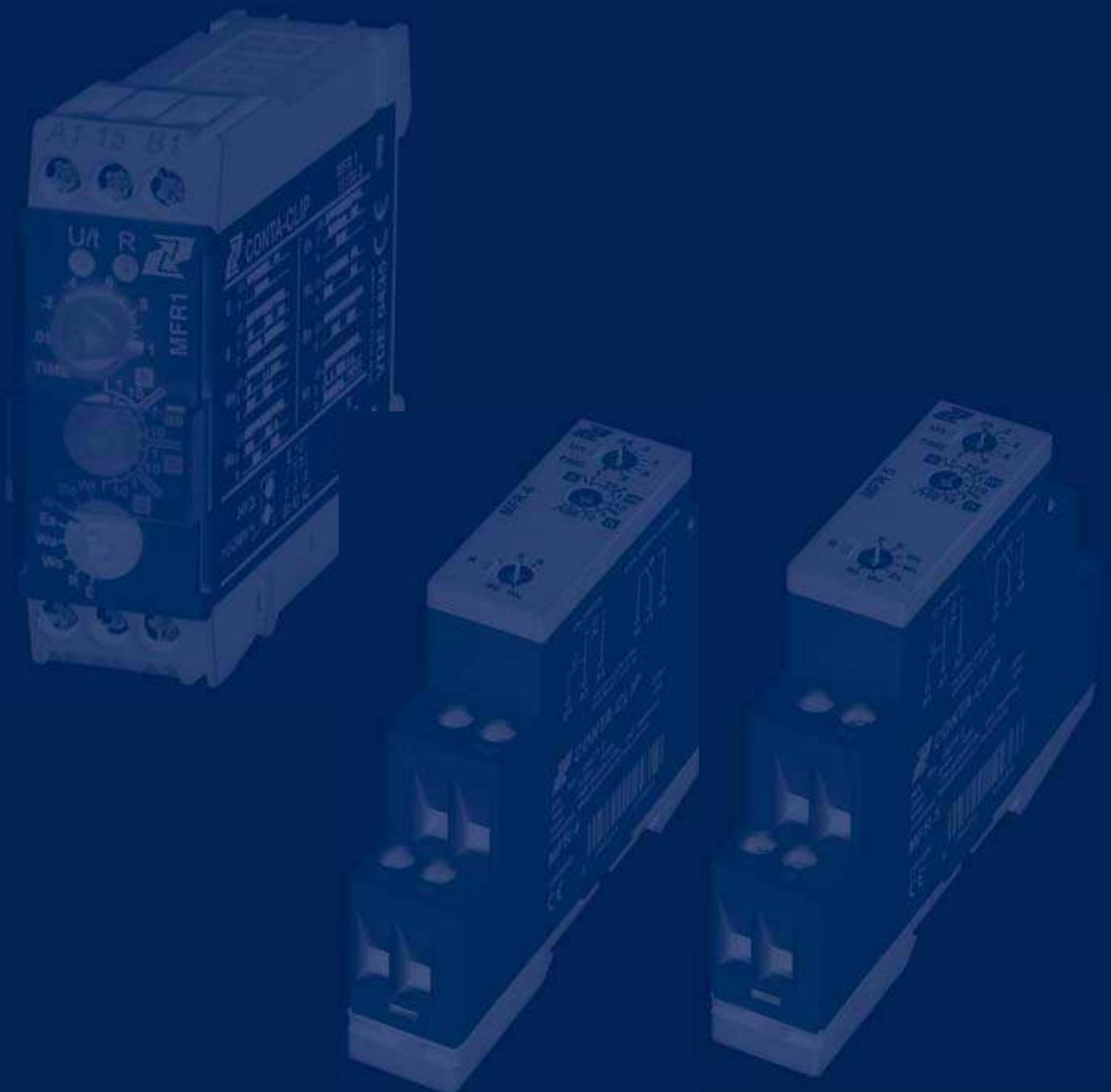


6 amp types



Functional Relays

Small control tasks often arise in automation engineering applications. These new functional relays were developed in order to accomplish these tasks as simply as possible. The small size and great flexibility of these relays allows them to be used in many different applications.



Functional Relays



MFR 1 | MFR 4 | MFR 5 Timing relays

Instead of timing components with only one function, these components offer the affordable possibility to implement several common time functions, such as ON-delay, impulse-ON, impulse-OFF, or pulse-monitoring. They reduce storage costs, since only one component is needed for all applications.



The MFR 6 clock-pulse generator dual-time relays

This functional component is equipped with a definable variable-time flash function. The output relay is controlled in accordance with both set times, until the supply voltage is interrupted. You can select operation - either beginning with pulse or beginning with delay.



TSR 1 | TSR 2 Staircase lighting time-limit switch

Electronic step-light time-limit switches with an advance-OFF warning function are functional relays that are often used in building installations. The device can be turned on by pressing the connected push-button. It can be turned off by holding the push-button down. The set time can be increased greatly by repeatedly pressing a push-button.

Functional Relays



USR 1 | USR 2 Undervoltage-monitor relays

The undervoltage monitoring of alternating voltage in 3- or 1-phase supply systems can be accomplished with these functional components. They monitor the power supply and protect motors and other power-consuming modules from the effects of phase errors. Voltages that are too low or loss of phase can lead to system failures and as such represent an enormous potential for danger.



SDSR 1 | SDSR 2 Star-delta switching relays

Star-delta switching is a commonly used function in motor-control engineering. These timing relays were developed in order to accomplish this task as simply as possible. They can be used in different motor types because the transit time is adjustable.



RM/HA/24 VUC | AUTO-ON-OFF-RELAY

This compact relay component acts as the interface between the encoder, input, control signals and the control or factory-level. It also enables simple switching from automatic mode to OFF or manual mode.

Because of the coil construction for the 24 V AC/DC input voltage, the component has a wide variety of uses. A potential-free check-back contact for control allows for convenient monitoring of the operating status. The status is also shown with an integrated LED.

The integrated relay is designed with a switching capacity of up to 2500 VA at a rated voltage of 250 V.



Intervention modules

Despite the rising level of automation in the sectors of building control, direct digital control, and PLC (programmable logic control), it is still sometimes necessary to intervene in the process during interruptions or servicing.

With the Intervention product family, **CONTA-CLIP** offers a comprehensive line offers many possibilities for automatization tasks. The Intervention modules are designed for the interface between the encoder, input, controls signals and the control/factory level. Selected operating modes (such as AUTOMATIC and HAND) are shown via colour LEDs. They can also be sent transmitted back to the corresponding factory-level or controller using a feedback circuit (a potential-free contact).

Program overview

- Analog output modules **AO**
- Digital switch modules without HAND/OFF/AUTOMATIC switch **RIM 4**
- Digital switch modules with HAND/OFF/AUTOMATIC switch **OD, ASB, HLS** and **MG**
- Digital switch modules with HAND/OFF/AUTOMATIC switch and watchdog **IM, ASBW** and **MGW**
- Digital switch modules with HAND/OFF/AUTOMATIC switch **AU**
- Display modules **LED**
- Monitoring modules **ST**

Multi-functional timing relays

MFR 1 | MFR 4 | MFR 5

Specifications

Mechanical design

- Mount on TS 35
- Housing made of self-extinguishing plastic, IP40 protection
- Any mounting position possible
- Screw connections protected against accidental touch, according to VBG 4, IP20 protection

Screw connection

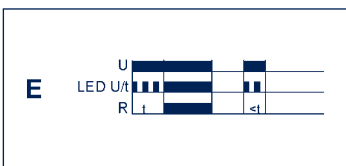
- 1 x 0.5 to 2.5 mm² with/without wire-end ferrules
- 1 x 4 mm² without wire-end ferrules
- 2 x 0.5 to 1.5 mm² with/without wire-end ferrules
- 2 x 2.5 mm² flexible without wire-end ferrules
- Tightening torque max. 1 Nm

Description of function

- The module must be disconnected from the power supply before selection of the timing function
- Please refer to data sheet or information printed on the module for a complete list of the various module functions

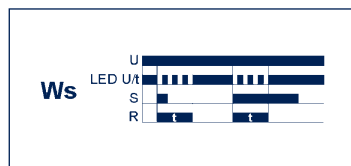
ON delay (E)

The set time t begins to run with the application of the supply voltage U . The green LED U/t flashes. After the time t has passed (the green LED U/t is lit), the output relay R goes on (yellow LED lit). This status is maintained until the supply voltage is interrupted. If the supply voltage is interrupted before the expiration of the time t , then the expired time is deleted and the time starts anew when the supply voltage is re-applied.



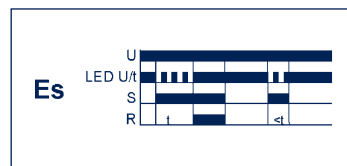
Impulse-ON with control contact (Ws)

The supply voltage U must constantly be applied to device (green LED U/t is lit). The output relay R activates (yellow LED lit) when the control contact S closes, and the set time t begins (green LED U/t flashes). After the time t has passed (green LED U/t is lit), the output relay deactivates (yellow LED not lit up). The control contact can be switched while the time is running. A further cycle can be started only when the currently running cycle is closed.



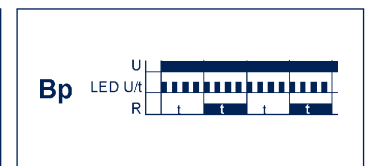
ON-delay with control contact (Es)

The supply voltage U must constantly be applied to device (green LED U/t is lit). The set time t begins when the control contact S is closed. The green LED U/t flashes. The output relay R activates (yellow LED is lit) after the expiration of the time t (green LED U/t is lit). This status is maintained until the control contact is opened. If the control contact is opened before the expiration of the time t , then the expired time is deleted and the time starts anew with the next cycle.



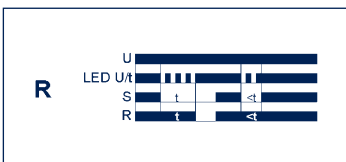
Flasher begin with delay (Bp)

The set time t begins to run with the application of the supply voltage U . The green LED U/t flashes. After the time t has passed, the output relay R goes on (the yellow LED lights up), and the set time t begins again. After the time t has passed, the output relay deactivates (yellow LED not lit). The output relay is controlled in a 1:1 ratio until the supply voltage is interrupted.



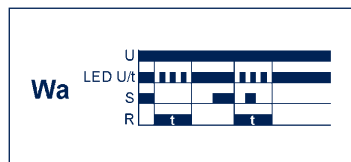
OFF-delay with control contact (R)

The supply voltage U must constantly be applied to device (green LED U/t is lit). The output relay R activates (yellow LED lit) when the control contact S closes. The set time t begins to run when the control contact S is opened. The green LED U/t flashes. The output relay R deactivates (yellow LED not lit) after the expiration of the time t (green LED U/t is lit). If the control contact is closed again before time t is expired, then the expired time is deleted and the time starts anew with the next cycle.



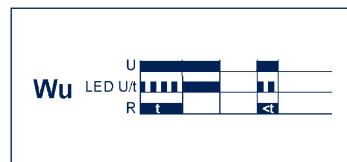
Impulse-OFF with control contact (Wa)

The supply voltage U must constantly be applied to device (green LED U/t is lit). The closure of control contact S has no influence on the positioning of the output relay R . When the control contact opens, the output relay activates (yellow LED is lit) and the set time t begins to run (green LED U/t flashes). The output relay R deactivates (yellow LED not lit) after the expiration of the time t (green LED U/t is lit). The control contact can be switched while the time is running. A further cycle can be started only when the currently running cycle is closed.



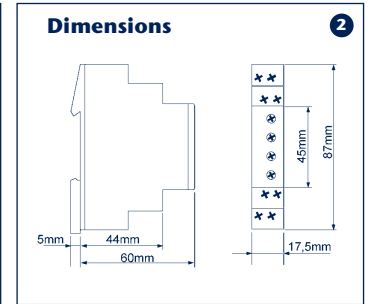
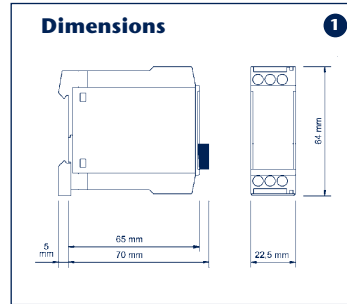
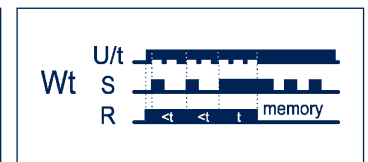
Impulse-ON voltage controlled (Wu)

The output relay R is activated (yellow LED lit) when the supply voltage is applied. The set time then begins to run (green LED U/t flashes). The output relay deactivates (yellow LED not lit) after the expiration of the time t (green LED U/t is lit). This status is maintained until the supply voltage is interrupted. If the supply voltage is interrupted before the time t expires, the the output relay is deactivated. The time that has already expired is deleted and when the supply voltage is re-applied the time is started anew.



Pulse monitoring (Wt)

The output relay R activates (yellow LED is lit) after the supply voltage is applied (green LED U/t is lit). The set time t begins when the control contact S is closed. The green LED U/t flashes. In order to keep the output relay activated, the control contact must be opened and then closed during the set time t . If this does not occur, the output relay is deactivated, and all further pulses to the control contact are ignored. In order to re-start this function, the supply voltage must be interrupted and re-applied.



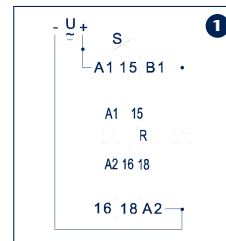
Environmental conditions

| | |
|-----------------------|--|
| Ambient temperature | -25 to +55°C (acc. to IEC 68-1) -25 to +40°C (UL 508) |
| Storage temperature | -25 to +70°C |
| Transport temperature | -25 to +70°C |
| Relative humidity | 15% to 85% (acc. to IEC 721-3-3 Class 3K3) |
| Pollution degree | 3 (acc. to IEC 664-1) |
| Vibration resistance | 10 to 55 Hz 0.35 mm (acc. to IEC 68-2-6) |
| Shock resistance | 15 g 11 ms (acc. to IEC 68-2-27) |

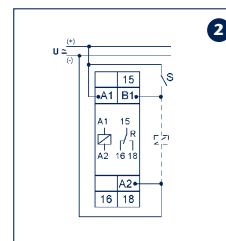
| | MFR 1 | MFR 4 | MFR 51 |
|--|--|--|---|
| |  |  |  |
| Type | MFR 1 | MFR 4 | MFR 5 |
| Cat. no./Qty. p.pck. | 15100.2/1 | 15677.2/1 | 15678.2/1 |
| Dimensions | 1 | 2 | 2 |
| Wiring diagram | 1 | 2, 3 | 2, 3 |
| Dimensions (L x W x H) TS 35 x 7.5 | 64 x 22.5 x 77.5 mm | 87 x 17.5 x 67.5 mm | 87 x 17.5 x 67.5 mm |
| Weight (individual packaging: module and packaging) | 65 g | 65 g | 65 g |
| Short description | Timing relay | Timing relay | Timing relay |
| | Multi-functional | Multi-functional | Multi-functional |
| | 8 functions | 4 functions | 7 functions |
| | 8 time delay ranges | 7 time delay ranges | 7 time delay ranges |
| | 1 CO contact | Wide-range input | Wide-range input |
| | Width 22.5 mm | 1 CO contact | 1 CO contact |
| | Industrial construction | Width 17.5 mm | Width 17.5 mm |
| Functions | | Installation design | Installation design |
| | E, R, Ws, Wa, Es, Wu, Bp, Wt* | | |
| Time ranges / setting ranges | | E, R, Wu, Bp* | E, R, Ws, Wa, Es, Wu, Bp* |
| | 50 ms to 10 d | 50 ms to 100 h | 50 ms to 100 h |
| Displays | | | |
| | Green LED U/t ON* | Green LED U/t ON* | Green LED U/t ON* |
| | Green LED U/t flashes* | Green LED U/t flashes* | Green LED U/t flashes* |
| | Yellow LED R ON/OFF* | Yellow LED R ON/OFF* | Yellow LED R ON/OFF* |
| Input circuit | | | |
| Supply voltage | 24 V DC, terminals A1(+)-A2(-), switch engaged 24 V DC, terminals A1-A2, Switch engaged 110 to 240 V AC, terminals A1-A2, switch dis-engaged | 24 to 240 V AC/DC, terminals A1(+)-A2(-) | 12 to 240 V AC/DC terminals A1(+)-A2(-) |
| Tolerance | 24 V DC $\pm 10\%$ 24 V AC -15% to +10% 110 to 240 VAC -15% to +10% | 24 V -15 % to 240 V +10% | 12 V -10% to 240 V +10% |
| Rated frequency | 48 to 63 Hz | 48 to 63 Hz | 48 to 63 Hz |
| Rated consumption | 24 V AC/DC 1.5 VA (1 W) 110 V AC 2 VA (1 W) 240 V AC 8 VA (1.3 W) | 4 VA (1.5 W) | 4 VA (1.5 W) |
| ON duration | 100 % | 100 % | 100 % |
| Recovery time | 250 ms | 100 ms | 100 ms |
| Residual ripple with DC | 10 % | 10 % | 10 % |
| Release voltage | > 30% of the min. Supply voltage | > 30% of the min. Supply voltage | > 30% of the min. Supply voltage |
| Oversvoltage category | III (acc. to IEC 664-1) | III (acc. to IEC 664-1) | III (acc. to IEC 664-1) |
| Rated impulse voltage | 4 kV | 4 kV | 4 kV |
| Output circuit | 1 potential-free CO contact | 1 potential-free CO contact | 1 potential-free CO contact |
| Rated voltage | 250 V AC | 250 V AC | 250 V AC |
| Switching capacity of module mounted side-by-side (gap < 5 mm) | 1250 VA (5 A/250 V AC) | 2000 VA (8 A/250 V AC) | 2000 VA (8 A/250 V AC) |
| Switching capacity of module not mounted side-by-side (gap < 5 mm) | 2000 VA (8 A/250 V AC) | 2000 VA (8 A/250 V AC) | 2000 VA (8 A/250 V AC) |
| Fusing | 8 A fast | 8 A fast | 8 A fast |
| Mechanical life span | 20 x 10 ⁵ switching cycles | 20 x 10 ⁵ switching cycles | 20 x 10 ⁵ switching cycles |
| Electrical service life | 2 x 10 ⁵ switching cycles at 1000 VA* | 2 x 10 ⁵ switching cycles at 1000 VA* | 2 x 10 ⁵ switching cycles at 1000 VA* |
| Switching frequency | Max. 60/min at 100 VA* Max. 6/min at 1000 VA* (acc. to IEC 947-5-1) | Max. 60/min at 100 VA* Max. 6/min at 1000 VA* (acc. to IEC 947-5-1) | Max. 60/min at 100 VA* Max. 6/min at 1000 VA* (acc. to IEC 947-5-1) |
| Rated insulation voltage | 250 VAC (acc. to IEC 664-1) | 250 VAC (acc. to IEC 664-1) | 250 VAC (acc. to IEC 664-1) |
| Oversvoltage category | III (acc. to IEC 664-1) | III (acc. to IEC 664-1) | III (acc. to IEC 664-1) |
| Rated impulse voltage | 4 kV | 4 kV | 4 kV |
| Process times (without relay switching times) | | | |
| ON delay | AC 25-55 ms, DC 35-45 ms | | |
| OFF delay | AC/DC 10-20 ms | | |
| Stored energy time when voltage fails | Max. 10 ms | | |
| Control contact | | | |
| Input | Non-floating, terminals A1-B1 | Non-floating, terminals A1-B1 | Non-floating, terminals A1-B1 |
| Load capacity | Parallel load, min. 1 VA (0.5 W) Terminals A2-B1 | Yes | Yes |
| Response threshold | | Automatically adjusted to supply voltage | Automatically adjusted to supply voltage |
| Maximum cable length | 10 m | 10 m | 10 m |
| Minimum pulse duration | AC/DC 50 ms | DC 50 ms/AC 100 ms | DC 50 ms/AC 100 ms |
| Accuracy | | | |
| Basic accuracy | $\pm 1\%$ (from scale reading) | $\pm 1\%$ (from scale reading) | $\pm 1\%$ (from scale reading) |
| Setting tolerance | $\leq 5\%$ (from scale reading) | $\leq 5\%$ (from scale reading) | $\leq 5\%$ (from scale reading) |
| Repeat accuracy | < 0.5% or ± 5 ms | < 0.5% or ± 5 ms | < 0.5% or ± 5 ms |
| Voltage influence | - | - | - |
| Temperature influence | $\leq 0.01\%$ / °C | $\leq 0.01\%$ / °C | $\leq 0.01\%$ / °C |

* see legend

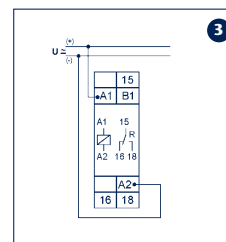
Connection diagram



With control contact



Without control contact



Legend:

- E** ON-delay
- R** OFF-delay*
- Ws** Impulse-ON*
- Wa** Impulse-OFF*
- Es** ON-delay*
- Wu** Impulse-ON Voltage controlled
- Bp** Flasher begin with delay
- Wt** Pulse monitoring
- *with control contact

Green LED U/t ON: Supply voltage applied
Green LED U/t flashing: Indicates timing period
Yellow LED R ON/OFF: Position of output relay

Output circuit
 VA resistive load

Clock-pulse generator dual-timing relays

MFR 6

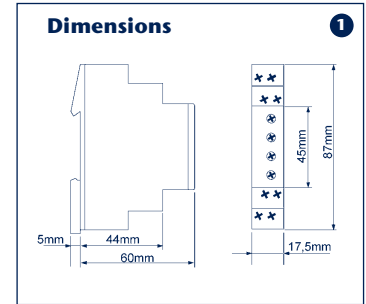
Specifications

Mechanical design

- Mount on TS 35
- Housing made of self-extinguishing plastic, IP40 protection
- Any mounting position possible
- Screw connections protected against accidental touch, according to VBG 4, IP20 protection

Screw connection

- 1 x 0.5 to 2.5 mm² with/without wire-end ferrules
- 1 x 4 mm² without wire-end ferrules
- 2 x 0.5 to 1.5 mm² with/without wire-end ferrules
- 2 x 2.5 mm² flexible without wire-end ferrules
- Tightening torque max. 1 Nm



Environmental conditions

| | |
|-----------------------|--|
| Ambient temperature | -25 to +55°C (acc. to IEC 68-1) -25 to +40°C (UL 508) |
| Storage temperature | -25 to +70°C |
| Transport temperature | -25 to +70°C |
| Relative humidity | 15% to 85% (acc. to IEC 721-3-3 Class 3K3) |
| Pollution degree | 3 (acc. to IEC 664-1) |
| Vibration resistance | 10 to 55 Hz 0.35 mm (acc. to IEC 68-2-6) |
| Shock resistance | 15 g 11 ms (acc. to IEC 68-2-27) |

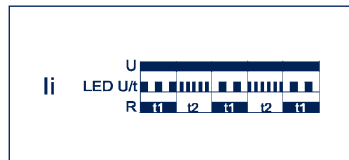
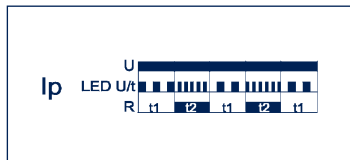
Description of function


Pulsed begin with delay (Ip)

The set time t1 begins to run with the application of the supply voltage U. (The green LED U/t flashes slowly.) After the time t1 expires, the output relay R activates (yellow LED is lit), and the time t2 begins to run (green LED U/t flashes quickly). After the time t2 has expired, the output relay deactivates (yellow LED not lit). The output relay is controlled in accordance with both set times- until the supply voltage is interrupted.

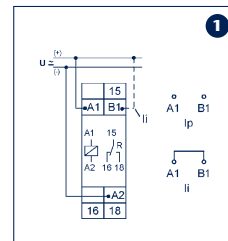
Pulsed begin with pulse (Ii)

The output relay R is activated (yellow LED lit) when the supply voltage U is applied. The set time t1 then begins to run (green LED U/t flashes slowly). After the time t1 has expired, the output relay is deactivated (yellow LED not lit), and the set time t2 begins to run (green LED flashes quickly). After the time t2 has expired, the output relay re-activates (yellow LED is lit). The output relay is controlled in accordance with both set times- until the supply voltage is interrupted.



| | MFR 6 | | |
|--|---|--|--|
| |  | | |
| Type | MFR 6 | | |
| Cat. no./Qty. p.pck. | 15679.2/1 | | |
| Dimensions | 1 | | |
| Wiring diagram | 1 | | |
| Dimensions (L x W x H) TS 35 x 7.5 | 87 x 17.5 x 67.5 mm | | |
| Weight (individual packaging: module and packaging) | 72 g | | |
| Short description | Clock pulse generator | | |
| | 7 time delay ranges | | |
| | Wide-range input | | |
| | 1 CO contact | | |
| | Width 17.5 mm | | |
| | Installation design | | |
| Functions | | | |
| | Ip Pulsed begin with delay | | |
| | Ii Pulsed begin with pulse (with jumper A1-B1) | | |
| Time ranges / setting ranges | | | |
| | 50 ms to 100 h | | |
| Display | | | |
| | Green LED U/t ON* | | |
| | Green LED V/t flashes slowly* | | |
| | Green LED V/t flashes quickly* | | |
| | Yellow LED R ON/OFF* | | |
| Input circuit | | | |
| Supply voltage | 12 to 240 V AC/DC, terminals A1 (+)-A2(-) | | |
| Tolerance | 12 V -10% to 240 V +10% | | |
| Rated frequency | 48 to 63 Hz | | |
| Rated consumption | 4 VA (1.5 W) | | |
| ON duration | 100 % | | |
| Recovery time | 100 ms | | |
| Residual ripple with DC | 10 % | | |
| Release voltage | > 30 % of the min. supply voltage | | |
| Overvoltage category | III (acc. to IEC 664-1) | | |
| Rated impulse voltage | 4 kV | | |
| Output circuit | | | |
| Rated voltage | 1 kv-free CO contact 250 V AC | | |
| Switching capacity of module mounted side-by-side (gap < 5 mm) | 2000 VA (8 A/250 V AC) | | |
| Switching capacity of module not mounted side-by-side (gap < 5 mm) | 2000 VA (8 A/250 V AC) | | |
| Fusing | 8 A fast | | |
| Mechanical life span | 20 x 10 ⁵ switching cycles | | |
| Electrical service life | 2 x 10 ⁵ switching cycles at 1000 VA* | | |
| Switching frequency | Max. 60/min at 100 VA* Max. 6/min at 1000 VA* (acc. to IEC 947-5-1) | | |
| Overvoltage category | III (acc. to IEC 664-1) | | |
| Rated impulse voltage | 4 kV | | |
| Control contact | | | |
| Input | Non-floating, terminals A1-B1 | | |
| Load capacity | Yes | | |
| Response threshold | Automatically adjusted to supply voltage | | |
| Maximum cable length | 10 m | | |
| Accuracy | | | |
| Basic accuracy | ± 1% (from scale reading) | | |
| Setting tolerance | < 5 % (from scale reading) | | |
| Repeat accuracy | < 0.5% or ± 5 ms | | |
| Voltage influence | - | | |
| Temperature influence | ≤ 0.01% /°C | | |

Connection diagram



Legend:

- Green LED U/t ON:** Supply voltage applied
- Green LED U/t flashes slowly:** Indicates timing period T1
- Green LED U/t flashes quickly:** Indicates timing period T2
- Yellow LED R ON/OFF:** Position of output relay

Output circuit
VA resistive load

* see legend

Staircase lighting time-limit switch

TSR 1 | TSR 2

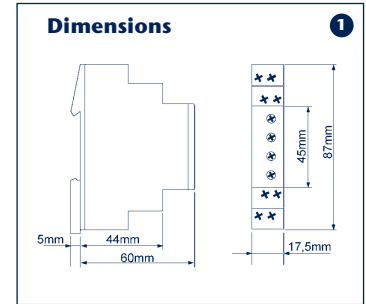
Specifications

Mechanical design

- Mount on TS 35
- Housing made of self-extinguishing plastic, IP40 protection
- Any mounting position possible
- Screw connections protected against accidental touch, according to VBG 4, IP20 protection

Screw connection

- 1 x 0.5 to 2.5 mm² with/without wire-end ferrules
- 1 x 4 mm² without wire-end ferrules
- 2 x 0.5 to 1.5 mm² with/without wire-end ferrules
- 2 x 2.5 mm² flexible without wire-end ferrules
- Tightening torque max. 1 Nm



Environmental conditions

| | |
|-----------------------|--|
| Ambient temperature | -25 to +55°C (acc. to IEC 68-1) -25 to +40°C (UL 508) |
| Storage temperature | -25 to +70°C |
| Transport temperature | -25 to +70°C |
| Relative humidity | 15% to 85% (acc. to IEC 721-3-3 Class 3K3) |
| Pollution degree | 3 (acc. to IEC 664-1) |
| Vibration resistance | 10 to 55 Hz 0.35 mm (acc. to IEC 68-2-6) |
| Shock resistance | 15 g 11 ms (acc. to IEC 68-2-27) |

Description of function

Electronic staircase lighting time-limit switches with an advance-OFF warning function. The control input allows for a connection of push-buttons with up to a total of 100 mA glow-lamp current. It can be used in three- or four-cable circuits. The device can be re-triggered by pressing the connected push-buttons or turned off by pressing down for a longer time on the push-button (energy-saving function). Rapid multiple pressing (“pumping”) of the button extends the interval by the set time t. Depending on the design version, the following operating modes can be selected with the front control unit:

The automatic timing function (T, TW)

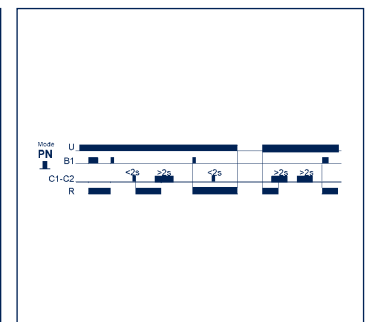
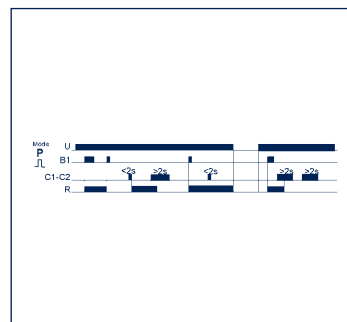
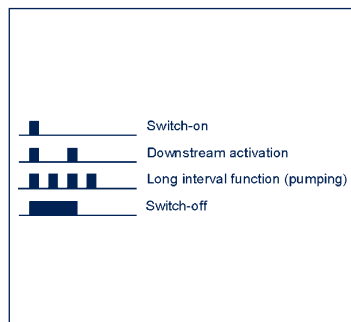
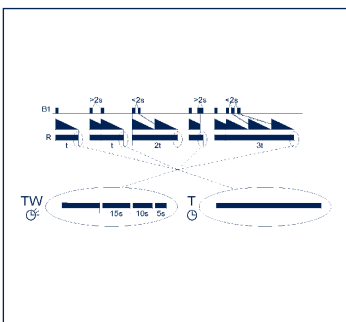
After pressing the button B1, the output relay R closes (terminals L-18) and the set time t begins to run. If the button is pressed again before the time t expires, then the time begins anew (the re-start function complies with EN 60669-2-3). Quick multiple pressing of the button (pumping) adds two, three, or more intervals to extend the time up to 60 minutes. Prolonged pressing of the button (more than two seconds) then aborts the running interval, and the relay turns off (energy saving function). The TW mode the device provides a switch-off warning (complies with DIN 180-15-2) by generating short pulses (flashes) at 30, 15, and 5 seconds before switch-off.



Operational possibilities with B1 in automatic timing

The additional control inputs C1-C2 is used in the T and TW modes to control the staircase lighting timer using a voltage from 8 - 230 V AC/DC. This input can be used to start and restart the time cycle. It can not be used for switch-off (energy saving) or for programming longer intervals (pumping).

Impulse switch mode (P), (PN)

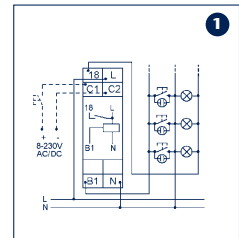
In impulse switch mode, every button press (on B1) switches (toggles) the output relay T. In the P function, the output relay R remains in the off-position when the supply voltage is applied. In the PN function, the output relay R switches to on-position immediately after the supply voltage is applied, if the relay was on before the last power stoppage. The output relay R switches to on-position (central ON), if a short (< 2 sec.) voltage impulse is applied to the additional control input C1-C2. A longer voltage impulse (> 2 sec.) turns off the output relay R (central OFF).



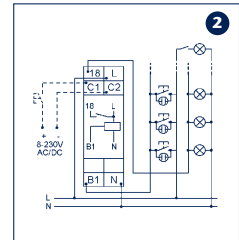
| | TSR 1 | TSR 2 | |
|--|--|--|--|
| |  |  | |
| Type | TSR 1 | TSR 2 | |
| Cat. no./Qty. p.pck. | 15680.2/1 | 15681.2/1 | |
| Dimensions | 1 | 1 | |
| Wiring diagrams | 1, 2 | 1, 2 | |
| Dimensions (L x W x H) TS 35 x 7.5 | 87 x 17.5 x 67.5 mm | 87 x 17.5 x 67.5 mm | |
| Weight (individual packaging: module and packaging) | 106 g | 106 g | |
| Short description | Staircase light timer, electronic | Staircase light timer, electronic | |
| | Advance turn-off warning | Advance turn-off warning | |
| | Retrigger function, extended time function | Retrigger function, extended time function | |
| | Energy saving | Energy saving | |
| | Selectable impulse relay mode | Selectable impulse relay mode | |
| | Low switching noise | Low switching noise | |
| | High switching capacity | High switching capacity, | |
| | 80 A inrush current peak | 80 A inrush current peak | |
| | Automatic 3 or 4 cable recognition | Automatic 3 or 4 cable recognition | |
| | Glow lamp load up to 100 mA | Glow lamp load up to 100 mA | |
| | Width 17.5 mm | Width 17.5 mm | |
| | Installation design | Installation design | |
| Functions | Tw, P, 1, 0 | TW, T, 1, 0, P, PN | |
| Time ranges / setting ranges | Time delay | Time delay | |
| | 0.5 to 12 min (in function T, TW) | 0.5 to 12 min (in function T, TW) | |
| Display | Green LED U/t ON* | Green LED U/t ON* | |
| | Yellow LED R ON/OFF* | Yellow LED R ON/OFF* | |
| Input circuit | | | |
| Supply voltage | Terminals L - N | Terminals L - N | |
| Rated voltage | 230 V AC | 230 V AC | |
| Tolerance | -15 % to +10 % | -15 % to +10 % | |
| Rated frequency | 48 to 63 Hz | 48 to 63 Hz | |
| Rated consumption | 2 VA (1.0 W) | 2 VA (1.0 W) | |
| ON duration | 100 % | 100 % | |
| Recovery time | 500 ms | 500 ms | |
| Stored energy time | - | - | |
| Residual ripple with DC | - | - | |
| Release voltage | > 30 % | > 30 % | |
| Overvoltage category | III (acc. to IEC 664-1) | III (acc. to IEC 664-1) | |
| Rated impulse voltage | 4 kV | 4 kV | |
| Output circuit | | | |
| Rated voltage | 1 NO contact, terminals L - 18 | 1 NO contact, terminals L - 18 | |
| | 250 V AC | 250 V AC | |
| Switching capacity of module mounted side-by-side (gap < 5 mm) | 10 A continuous current | 10 A continuous current | |
| Switching capacity of module not mounted side-by-side (gap < 5 mm) | 16 A continuous current | 16 A continuous current | |
| Inrush current peak (20 ms) | 80 A | 80 A | |
| Mechanical life span | 30 x 10 ⁶ switching cycles | 30 x 10 ⁶ switching cycles | |
| Electrical service life | | | |
| Resistive load | 2 x 10 ⁵ switch. cycles at 16 A/250 V | 2 x 10 ⁵ switch. cycles at 16 A/250 V | |
| Glow lamp load | 80,000 switch. cycles at 1000 W/250 V | 80,000 switch. cycles at 1000 W/250 V | |
| Overvoltage category | III (acc. to IEC 664-1) | III (acc. to IEC 664-1) | |
| Rated impulse voltage | 4 kV | 4 kV | |
| Control contact | | | |
| Connection | Control input B1 | Control input B1 | |
| | Non-floating, push-button B1-N (3-cable circuit), push-button B1-L (4-cable circuit) | Non-floating, push-button B1-N (3-cable circuit), push-button B1-L (4-cable circuit) | |
| Glow lamp load | Max. 100 mA parallel to the push-buttons | Max. 100 mA parallel to the push-buttons | |
| Overload protection | Yes, electronic | Yes, electronic | |
| Additional control input | | | |
| Connection | - | Control voltage on terminals C1(+)-C2 | |
| Control voltage | - | 8 to 230 V AC/DC | |
| Electrical isolation | - | Yes, basic insulation | |
| Overvoltage category | - | III (acc. to IEC 60664-1) | |
| Rated impulse voltage | - | 4 kV | |
| Accuracy | | | |
| Basic accuracy | ± 5 % (from scale reading) | ± 5 % (from scale reading) | |
| Setting accuracy | < 15 % (from scale reading) | < 15 % (from scale reading) | |
| Repeat accuracy | < 2 % | < 2 % | |
| Voltage influence | - | - | |
| Temperature influence | ≤ 1 % | ≤ 1 % | |

Connection diagram

3-cable circuit



4-cable circuit with attic illumination



Legend:

- TW:** Automatic timing function with advance turn-off warning
- T:** Automatic timing function without advance turn-off warning
- 1:** Continuous lighting
- 0:** Switched off
- P:** Impulse relay without timing function
- PN:** Impulse relay
- Neutral-voltage safe**
- Green LED U/t ON:** Supply voltage applied
- Yellow LED R ON/OFF:** Position of output relay

* see legend

Undervoltage monitoring relays

USR 1 | USR 2

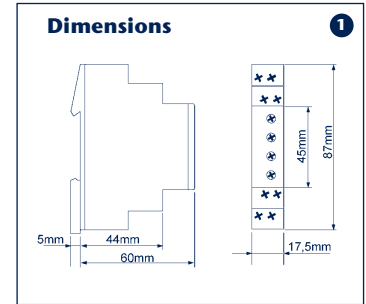
Specifications

Mechanical design

- Mount on TS 35
- Housing made of self-extinguishing plastic, IP40 protection
- Any mounting position possible
- Screw connections protected against accidental touch, according to VBG 4, IP20 protection

Screw connection

- 1 x 0.5 to 2.5 mm² with/without wire-end ferrules
- 1 x 4 mm² without wire-end ferrules
- 2 x 0.5 to 1.5 mm² with/without wire-end ferrules
- 2 x 2.5 mm² flexible without wire-end ferrules
- Tightening torque max. 1 Nm



Environmental conditions

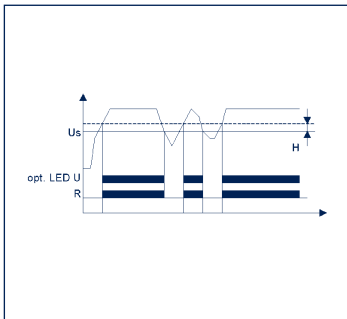
| | |
|-----------------------|--|
| Ambient temperature | -25 to +55°C (acc. to IEC 68-1) |
| | -25 to +40°C (UL 508) |
| Storage temperature | -25 to +70°C |
| Transport temperature | -25 to +70°C |
| Relative humidity | 15% to 85% (acc. to IEC 721-3-3 Class 3K3) |
| Pollution degree | 3 (acc. to IEC 664-1) |
| Vibration resistance | 10 to 55 Hz 0.35 mm (acc. to IEC 68-2-6) |
| Shock resistance | 15 g 11 ms (acc. to IEC 68-2-27) |

Description of function

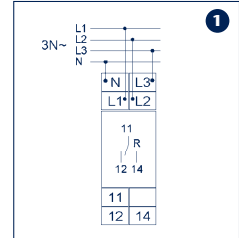
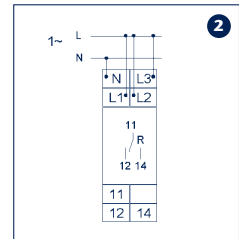
Undervoltage monitoring for three-phase AC mains with a fixed (UFR 1) or variable (UFR 2) switching threshold, and a fixed hysteresis. All measuring inputs (L1, L2, and L3) must each be connected to a phase voltage. If three-phase measurements are not desired, then multiple measurement inputs should be connected to one phase, so that all inputs have the appropriate voltage applied. If the reverse voltage coming from the load exceeds the threshold U_s , then a phase failure can not be detected.

Undervoltage monitoring without the optional time function

The output relay activates (yellow LED lit) when the measured voltage of all connected phases exceeds the threshold U_s by more than the hysteresis. When the voltage of one of the connected phases falls below the fixed threshold value, the output relay is deactivated (yellow LED not lit).



| | USR 1 | USR 2 | |
|--|---|--|--|
| |  |  | |
| Type | USR 1 | USR 2 | |
| Cat. no./Qty. p.pck. | 15682.2/1 | 15683.2/1 | |
| Dimensions | 1 | 1 | |
| Wiring diagrams | 1, 2 | 1, 2 | |
| Dimensions (L x W x H) TS 35 x 7.5 | 87 x 17.5 x 67.5 mm | 87 x 17.5 x 67.5 mm | |
| Weight (individual packaging: module and packaging) | 72 g | 72 g | |
| Short description | Undervoltage Monitoring relay | Undervoltage Monitoring relay | |
| | Voltage monitoring 3-phase | Voltage monitoring 3-phase | |
| | Undervoltage monitoring of supply voltage = measured voltage | Undervoltage monitoring of supply voltage = measured voltage | |
| | Switching threshold fixed for systems acc. to VDE0108 | Switching threshold, variable | |
| | 1 CO contact Width 17.5 mm | 1 CO contact Width 17.5 mm | |
| | Installation design | Installation design | |
| Time ranges / setting ranges | Output delay | Output delay | |
| | Quick, approx. 200 ms | Quick, approx. 200 ms | |
| Display | Yellow LED R ON/OFF* | Yellow LED R ON/OFF* Green LED L1 ON/OFF* Green LED L2 ON/OFF* Green LED L3 ON/OFF* | |
| Input circuit | | | |
| Supply voltage | = measured voltage | = measured voltage | |
| Terminals | N-L1-L2-L3 | N-L1-L2-L3 | |
| Rated voltage | Un: 3N-400/230 V | Un: 3N-400/230 V | |
| Tolerance | -30 % to +10 % from Un | -30 % to +10 % from Un | |
| Rated frequency | 48 to 63 Hz | 48 to 63 Hz | |
| Rated consumption | 5 VA (0.6 W) | 8 VA (0.8 W) | |
| ON duration | 100 % | 100 % | |
| Recovery time | 500 ms | 500 ms | |
| Stored energy time | - | - | |
| Release voltage | Defined by measurement function | Defined by measurement function | |
| Overvoltage category | III (acc. to IEC 664-1) | III (acc. to IEC 664-1) | |
| Rated impulse voltage | 4 kV | 4 kV | |
| Output circuit | 1 potential-free CO contact | 1 potential-free CO contact | |
| Switching capacity | 250 V AC | 250 V AC | |
| Switching capacity of module mounted side-by-side (gap < 5 mm) | 1250 VA (5 A/250 V AC) | 1250 VA (5 A/250 V AC) | |
| Switching capacity of module not mounted side-by-side (gap < 5 mm) | 1250 VA (5 A/250V AC) | 1250 VA (5 A/250 V AC) | |
| Fusing | 5 A fast | 5 A fast | |
| Mechanical life span | 20 x 10 ⁶ switching cycles | 20 x 10 ⁶ switching cycles | |
| Electrical service life | 2 x 10 ⁵ switching cycles at 1000 VA* | 2 x 10 ⁵ switching cycles at 1000 VA* | |
| Switching frequency | Max. 60/min at 100 VA* Max. 6/min at 1000 VA* (acc. to IEC 947-5-1) | Max. 60/min at 100 VA* Max. 6/min at 1000 VA* (acc. to IEC 947-5-1) | |
| Overvoltage category | III (acc. to IEC 664-1) | III (acc. to IEC 664-1) | |
| Rated impulse voltage | 4 kV | 4 kV | |
| Measurement circuit | | | |
| Measured quantity | AC sinusoidal, 48 to 68 Hz | AC sinusoidal, 48 to 68 Hz | |
| Measurement input | = supply voltage | = supply voltage | |
| Terminals | N-L1-L2-L3 | N-L1-L2-L3 | |
| Overload capability | Defined by the tolerance of the supply voltage | Defined by the tolerance of the supply voltage | |
| Input resistance | - | - | |
| Switching threshold Us | Fast 195.5 V (L-N) for installations to VDE 0108 | 160 to 240 V (L-N) | |
| Hysteresis H | Approx. 5 % | Approx. 5 % | |
| Overvoltage category | III (acc. to IEC 664-1) | III (acc. to IEC 664-1) | |
| Rated impulse voltage | 4 kV | 4 kV | |
| Accuracy | | | |
| Basic accuracy | ± 5 % of rated voltage | ± 5 % of rated voltage | |
| Setting tolerance | - | - | |
| Repeat accuracy | ≤ 2 % | ≤ 2 % | |
| Voltage influence | - | - | |
| Temperature influence | ≤ 1 % | ≤ 1 % | |

Connection diagram

Connection diagram

Legend:

Yellow LED R ON/OFF:
Position of output relay
Green LED L1 ON/OFF:
Indication of voltage L1-N
Green LED L2 ON/OFF:
Indication of voltage L2-N
Green LED L3 ON/OFF:
Indication of voltage L3-N

Output circuit
VA resistive load

* see legend

Star-delta switching relays

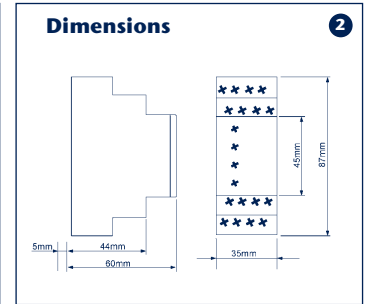
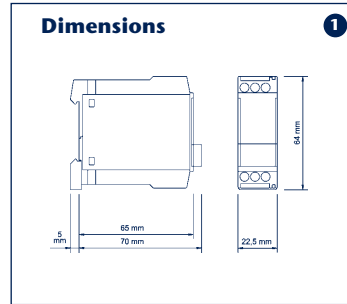
Specifications

Mechanical design

- Mount on TS 35
- Housing made of self-extinguishing plastic, IP40 protection
- Any mounting position possible
- Screw connections protected against accidental touch, according to VBG 4, IP20 protection

Screw connection

- 1 x 0.5 to 2.5 mm² with/without wire-end ferrules
- 1 x 4 mm² without wire-end ferrules
- 2 x 0.5 to 1.5 mm² with/without wire-end ferrules
- 2 x 2.5 mm² flexible without wire-end ferrules
- Tightening torque max. 1 Nm

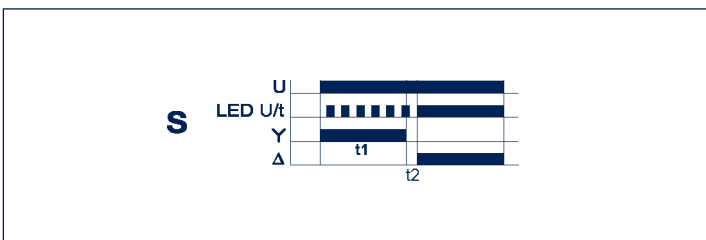




Environmental conditions

| | |
|-----------------------|--|
| Ambient temperature | -25 to +55°C (acc. to IEC 68-1) -25 to +40°C (UL 508) |
| Storage temperature | -25 to +70°C |
| Transport temperature | -25 to +70°C |
| Relative humidity | 15% to 85% (acc. to IEC 721-3-3 Class 3K3) |
| Pollution degree | 2, in installed condition 3 (acc. to IEC 664-1) |
| Vibration resistance | 10 to 55 Hz 0.35 mm (acc. to IEC 68-2-6) |
| Shock resistance | 15 g 11 ms (acc. to IEC 68-2-27) |

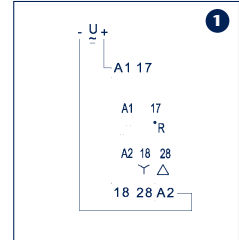
Description of function

When supply voltage U is applied, the output relay for the star protection activates (yellow LED is lit), and the set star time (t1) begins to run (green LED U/t flashes). After the star time expires (green LED U/t is lit), the output relay for the star protection is deactivated (yellow LED is not lit), and the set transit time (t2) begins to run. After the transit time expires, the output relay for the delta protection activates. In order to re-start this function, the supply voltage must be interrupted and re-applied.

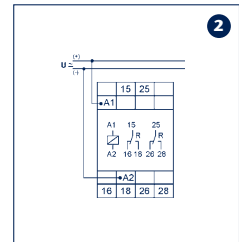


| | SDSR 1 | SDSR 2 | |
|--|--|---|--|
| |  |  | |
| Type | SDSR 1 | SDSR 2 | |
| Cat. no./Qty. p.pck. | 15776.2/1 | 15777.2/1 | |
| Dimensions | 1 | 2 | |
| Connection diagram | 1 | 2 | |
| Dimensions (L x W x H) TS 35 x 7.5 | 64 x 22.5 x 77.5 mm | 87 x 35 x 67.5 mm | |
| Weight (individual packaging; module and packaging) | 65 g | 106 g | |
| Short description | Star-delta start-up | Star-delta start-up | |
| | 2 NO | 2 CO contact | |
| | Width 22.5 mm | Width 35 mm | |
| | Industrial design | Installation design | |
| Functions | | | |
| | 5 star-delta start-up | 5 star-delta start-up | |
| Time delay range | Time end range/setting range | Time end range/setting range | |
| Star time | 10 sec/500 ms to 10 sec 30 sec/1500 ms to 30 sec 1 min/3 sec to 1 min | 10 sec/500 ms to 10 sec 30 sec/1500 ms to 30 sec 1 min/3 sec to 1 min | |
| Transit time (fast) | | | |
| | 40 ms | 40 ms | |
| | 60 ms | 60 ms | |
| | 80 ms | 80 ms | |
| | 100 ms | 100 ms | |
| Display | | | |
| | Green LED ON* | Green LED ON* | |
| | Green LED flashes* | Green LED flashes* | |
| | Yellow LED R ON/OFF* | Yellow LED R ON/OFF* | |
| Supply circuit | | | |
| Supply voltage | 24 V DC, terminals A1(+)-A2(-), switch engaged 24 V DC, terminals A1-A2, Switch engaged 110 to 240 V AC, terminals A1-A2, switch dis-engaged | 12 to 240 V AC/DC terminals A1(+)-A2(-) | |
| Tolerance | 24 V DC $\pm 10\%$ 24 V AC -15% to +10% 110 to 240 VAC -15% to +10% | 12 V -10% to 240 V +10% | |
| Rated frequency | 48 to 63 Hz | 48 to 63 Hz | |
| Rated consumption | 24 V AC/DC 1.5 VA (1 W) 110 V AC/DC 2 VA (1 W) 240 V AC 8 VA (1.3W) | 4 VA (1.5 W) | |
| ON duration | 100% | 100% | |
| Recovery time | 100 ms | 100 ms | |
| Residual ripple with DC | 10% | 10% | |
| Release voltage | > 30 % of the min. supply voltage | > 30 % of the min. supply voltage | |
| Overvoltage category | III (acc. to IEC 664-1) | III (acc. to IEC 664-1) | |
| Rated impulse voltage | 4 kV | 4 kV | |
| Output circuit | | | |
| Rated voltage | 250 V AC | 250 V AC | |
| Switching capacity of module mounted side-by-side (gap < 5 mm) | 1250 VA (5A/250V AC) | 2000 VA (8A/250V AC) | |
| Switching capacity of module not mounted side-by-side (gap < 5 mm) | 2000 VA (8A/250V AC) | 2000 VA (8A/250V AC) | |
| Fusing | 8A fast | 8A fast | |
| Mechanical life span | 20 x 10 ⁶ switching cycles | 20 x 10 ⁶ switching cycles | |
| Electrical service life | 2 x 10 ⁵ switching cycles at 1000 VA resistive load | 2 x 10 ⁵ switching cycles at 1000 VA resistive load | |
| Switching frequency | Max. 60/min at 100 VA resistive load Max. 6/min at 1000 VA resistive load (acc. to IEC 947-5-1) | Max. 60/min at 100 VA resistive load Max. 6/min at 1000 VA resistive load (acc. to IEC 947-5-1) | |
| Rated insulation voltage | 250 VAC (acc. to IEC 664-1) | 250 VAC (acc. to IEC 664-1) | |
| Overvoltage category | III (acc. to IEC 664-1) | III (acc. to IEC 664-1) | |
| Rated impulse voltage | 4 kV | 4 kV | |
| Accuracy | | | |
| Basic accuracy | $\pm 1\%$ (from scale reading) | $\pm 1\%$ (from scale reading) | |
| Setting tolerance | $\leq 25\%$ (from scale reading) | $\leq 25\%$ (from scale reading) | |
| Repeat accuracy | < 0.5% or ± 5 ms | < 0.5% or ± 5 ms | |
| Temperature influence | - | - | |
| Temperature influence | $\leq 20.01\%$ / °C | $\leq 20.01\%$ / °C | |

Connection diagram



Connection diagram



Legend:

Green LED ON*:
Supply voltage activated
Output relay for delta protection is activated

Green LED flashes*:
Indicates expiration of star time

Yellow LED R ON/OFF*:
Position of output relay for star protection

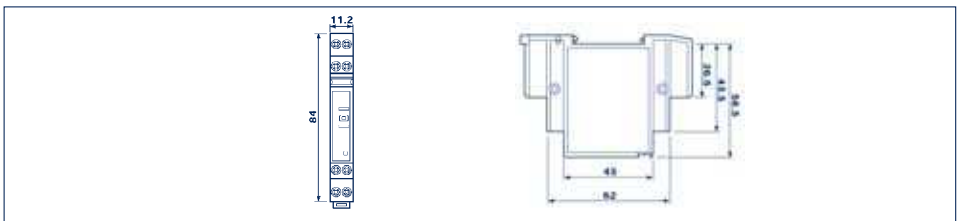
Auto-Off-On Relay RM/HA/24 VUC

- Mount on TS 35
- Installation design, width 11.2 mm
- IP 20 protection
- Screw connections protected against accidental contact, according to VBG 4
- Switch for HAND/OFF/AUTOMATIC operation
- LED for indicating the switching status
- Basic insulation, according to VDE 0435/EN 61810-1

RM/HA/24 VUC



Dimensions



| | | |
|--|--|---------------|
| Type | RM/HA/24 VUC | |
| Cat. no./Qty. p.pck. | 15561.2/1 | |
| Size (L x W x H) with TS 35 x 7.5 | 84 x 11.2 x 64 mm | |
| Weight | 45 g | |
| General information | | |
| Insulation properties | | |
| DIN-VDE specifications | DIN EN 50178; DIN VDE 0110, pollution degree 2, overvoltage category III | |
| Dielectric strength of coil/contacts (1.2/50 µs) | 4 kV | |
| Dielectric strength between mains voltage and contacts | 3,000 V AC | |
| with open contact | 1000 V AC | |
| Operating temperature | -10 to +50°C | |
| Relay protection type | IP 20 | |
| Insulation stripping length | 7 mm | |
| Max. connection cross-section for screw-clamp | solid core | stranded |
| mm ² | 1 x 6/2 x 2.5 | 1 x 4/2 x 1.5 |
| AWG | 1 x 10/2 x 14 | 1 x 12/2 x 16 |
| Torque | 0.5 Nm | |
| Ambient heat dissipation without contact current | 0.4 W | |
| with continuous current | 1.8 W | |
| Coil input data | | |
| Rated voltage (UN) | 24 V AC/DC | |
| Power rating AC/DC | 0.6 VA (50 Hz) / 0.4 W | |
| Operating range | 19.2 V to 26.4 V AC/DC | |
| Contacts output data | | |
| Number of contacts | 1 CO contact | |
| Max continuous current/max inrush current | 10 A/15 A | |
| Rated voltage/max. switching voltage | 250/400 V AC | |
| Max. power rating AC 1 | 2500 VA | |
| Max. power rating AC 15 (230 V AC) | 500 VA | |
| 1-phase motor load, AC 3 - operation (230 V AC) | 0.44 kW | |
| Max. switching current DC 1: 30/110/220 V | 10 A/0.3 A/0.12 A | |
| Min. switching load | 300 mW (5 V/5 mA) | |
| Contact material | AgSnO 2 | |
| Mechanical life span | 10 x 10 ⁶ switching cycles | |
| Electrical life span AC 1 | 100 x 10 ³ switching cycles | |
| Contact data | | |
| Permissible contact load of glow lamps (230 V) | 1000 W | |
| Fluorescent lamps, compensated (230 V) | 350 W | |
| Fluorescent lamps, uncompensated (230 V) | 500 W | |
| Halogen lamps (230 V) | 1000 W | |

Auto-Off-On Relay RM/HA/24 VUC

Circuit diagram

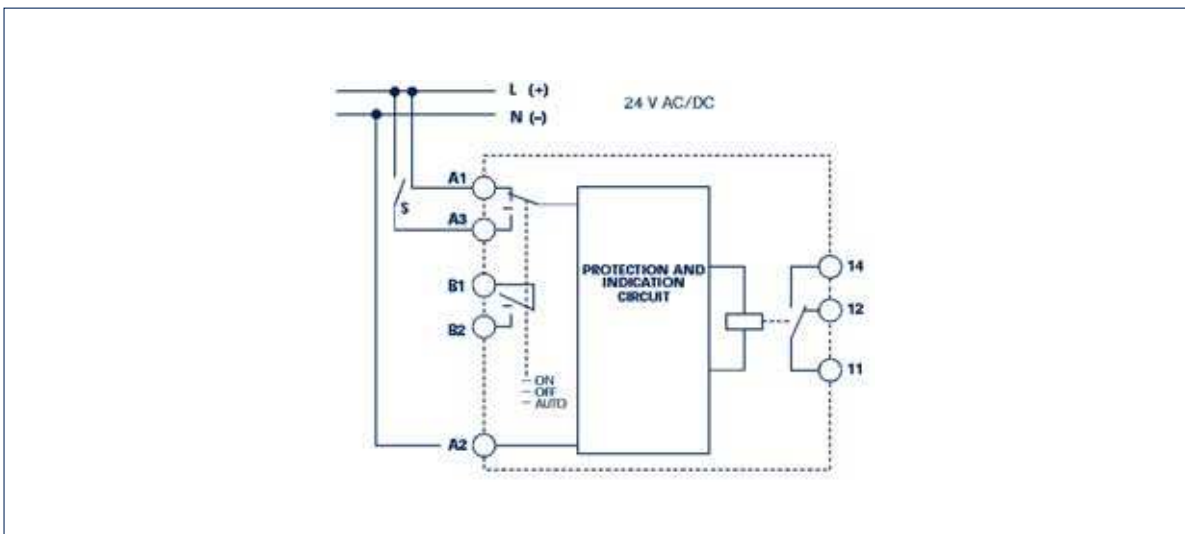


Table of functions

| Changeover contact | Controller output (S) | Output relay | LED | B 1 - B 2 check-back contact |
|--------------------|-----------------------|--------------|-----|------------------------------|
| AUTO | Closed | ON | ON | Closed |
| AUTO | Open | OFF | OFF | Closed |
| ON | - | ON | ON | Open |
| OFF | - | OFF | OFF | Open |

Functional principle

When the changeover contact is in the AUTO position, the check-back contact B1-B2 is closed.
The LED is lit when the NO of the internal relay is closed.

AUTO = The output signal originating from the controller will be forwarded

OFF = The actuator for restricting the control variable is turned off

ON = The actuator for restricting the control variable is turned on independent from the controller

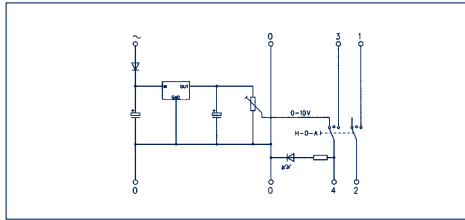
Analog output modules AO-1

- Mount on TS32/TS 35
- Screw-clamp connection
- Switch for HAND/AUTOMATIC or HAND/OFF/AUTOMATIC
- With and without feedback loop

AO-1



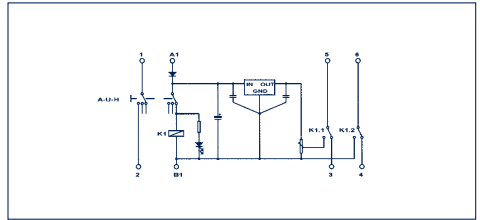
Circuit diagram



AO-1-2 S



Circuit diagram



| Type | AO-1 | AO-1-2 S |
|---|--|--|
| Cat. no./Qty. p.pck. | 6550.2/1 | 6551.2/1 |
| Size (L x W x H) with TS 35 x 7.5 | 87 x 31 x 68 mm | 87 x 31 x 68 mm |
| Weight | 61 g | 94 g |
| General information | | |
| DIN-VDE specifications | DIN EN 50178; DIN VDE 0110, pollution degree 2, overvoltage category III | DIN EN 50178; DIN VDE 0110, pollution degree 2, overvoltage category III |
| Test voltage coil/contact | - | 4 kV |
| Operating temperature | 0 to +55°C | 0 to +55°C |
| Insulation stripping length | 7 mm | 7 mm |
| Conductor cross-section | 0,2-2,5 mm ² /AWG 22-14 | 0,2-2,5 mm ² /AWG 22-14 |
| Switch contact material | silver, gold plated | silver, gold plated |
| Mechanical life span switch | > 100 000 switching cycles | > 100 000 switching cycles |
| Max. voltage/current switch | 24 V / 2 A | 24 V / 2 A |
| Input data | | |
| Input signal ±10% | 0 to 10 V | 0 to 10 V |
| Power consumption per input | - | - |
| LED lights when | > 1 V | - |
| Output data | | |
| Output signal | 0 to 10 V ±5%, or the input signal | 0 to 10 V ±5%, or the input signal |
| Load resistance | > 500 Ω | > 500 Ω |
| Max. switching voltage | - | 24 V AC / DC |
| Max continuous current/inrush current | - | 4 A / 4 A |
| Max. power rating (ohmic load) | - | 100 VA / 100 W |
| Typical response time/release time | - | 20 ms / 100 ms |
| Contact material | - | AgNi |
| Electrical life span at max. contact load | - | >2 x 10 ⁵ switching cycles |
| Mechanical life span | - | >3 x 10 ⁷ switching cycles |
| Power supply | 24 V AC / DC ±10% - 30 mA, (terminal ~, 0) | 24 V AC / DC ±10% - 30 mA, (terminal A1, B1) |

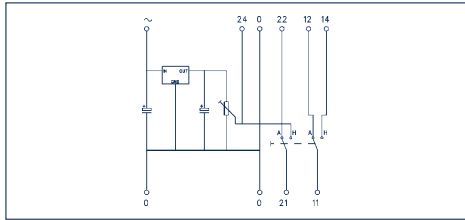
Analog output modules A0

- Mount on TS32/TS 35
- Screw-clamp connection
- Switch for HAND/AUTOMATIC or HAND/OFF/AUTOMATIC
- With and without feedback loop

AO/0-10 V/SCHAK



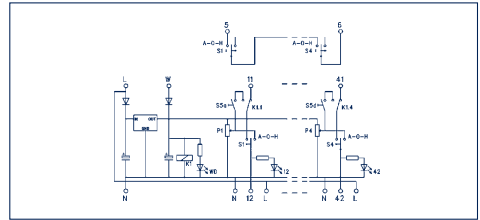
Circuit diagram



AOW-4-2 S



Circuit diagram



| Type | AO/0-10 V/SCHAK | AOW4-2 S |
|---|--|--|
| Cat. no./Qty. p.pck. | 6568.2/1 | 6411.2/1 |
| Size (L x W x H) with TS 35 x 7.5 | 87 x 39 x 68 mm | 87 x 77 x 68 mm |
| Weight | 71 g | 216 g |
| General information | | |
| DIN-VDE specifications | DIN EN 50178; DIN VDE 0110, pollution degree 2, overvoltage category III | DIN EN 50178; DIN VDE 0110, pollution degree 2, overvoltage category III |
| Test voltage coil/contact | - | - |
| Operating temperature | 0 to +55°C | 0 to +55°C |
| Insulation stripping length | 7 mm | 7 mm |
| Conductor cross-section | 0,2-2,5 mm ² /AWG 22-14 | 0,2-2,5 mm ² /AWG 22-14 |
| Switch contact material | silver, gold plated | silver, gold plated |
| Mechanical life span switch | > 100 000 switching cycles | > 100 000 switching cycles |
| Max. voltage/current switch | 24 V/2 A | 24 V/2 A |
| Input data | | |
| Input signal ±10% | 0 to 10 V | 0 to 10 V |
| Power consumption per input | - | 6 VA/4 W (terminal W, N) |
| LED lights when | - | > 1 V |
| Output data | | |
| Output signal | 0 to 10 V ±5%, or the input signal | 0 to 10 V ±5%, or the input signal |
| Load resistance | > 500 Ω | > 500 Ω |
| Max. switching voltage | - | - |
| Max continuous current/inrush current | - | - |
| Max. power rating (ohmic load) | - | - |
| Typical response time/release time | - | - |
| Contact material | - | - |
| Electrical life span at max. contact load | - | - |
| Mechanical life span | - | - |
| Power supply | 24 V AC/DC ±10% - 30 mA, (terminal ~, 0) | 24 V AC/DC ±10% - 200 mA |

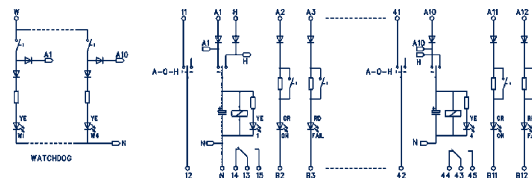
Digital switch modules with HAND/OFF/AUTOMATIC operation

- Mount on TS32/TS 35
- Screw-clamp connection
- Switch for HAND/OFF/AUTOMATIC operation per channel
- Feedback loop for automatic operation per channel
- MGW 4-3 L: integrated Watchdog, adjustable via DIP switch
- Transparent cover plate, i.e. for fastening labelling fields
- LED indicator for displaying operational status
- Input suitable for AC and DC voltage

MGW 4-3 L | MG 4-3 L



Circuit diagram



| | |
|--|--|
| Type | MGW 4-3 L |
| Cat. no./Qty. p.pck. | 15099.2/1 |
| Type | MG 4-3 L |
| Cat. no./Qty. p.pck. | 6884.0/1 |
| Size (L x W x H) with TS 35 x 7.5 | 87 x 151 x 72 mm |
| Weight | 274 g |
| General information | |
| DIN-VDE specifications | DIN EN 50178; DIN VDE 0110, pollution degree 2, overvoltage category III |
| Test voltage coil/contact | 4 kV |
| Operating temperature | 0 to +55 °C |
| Insulation stripping length | 7 mm |
| Conductor cross-section | 0,2-2,5 mm ² /AWG 22-14 |
| Switch contact material | silver, gold plated |
| Mechanical life span switch | > 100 000 switching cycles |
| Max. voltage/current switch | 24 V / 2 A |
| Input data | |
| Max. input signal ±10% | 24 V AC/DC |
| Power consumption per input | 1 VA/0.5 W |
| LED "Watchdog-No." (only MGW 4-3 L/"channel no."/"Bedrijf"/"Storing") | yellow/yellow/green/red |
| Rated/Max. LED current (channel "Bedrijf" [1] and "Storing" [2]) | 5 mA/10 mA |
| Changeover contact for series or parallel operation (channel "Bedrijf" [1] and "Storing" [2]) | ON position: resistance (4 k 7) is short-circuited. Caution: LED MAX = 15 mA! |
| Power supply for manual operation (terminal H and N) | 24 V AC/DC |
| Output data | |
| Max. switching voltage | 250 V AC/DC |
| Max continuous current/inrush current | 6 A/8 A |
| Max. power rating (ohmic load) | 2000 VA at 250 V AC, 8 A/192 W at 24 V DC |
| Typical response time/release time | 10 ms/50 ms |
| Contact material | AgNi |
| Electrical life span at max. contact load | >3 x 10 ⁴ switching cycles |
| Mechanical life span | >30 x 10 ⁶ switching cycles |

| | |
|--|--|
| Type | MGW 4-3 L |
| Cat. no./Qty. p.pck. | 15099.2/1 |
| Type | MG 4-3 L |
| Cat. no./Qty. p.pck. | 6884.0/1 |
| Size (L x W x H) with TS 35 x 7.5 | 87 x 151 x 72 mm |
| Weight | 274 g |
| General information | |
| DIN-VDE specifications | DIN EN 50178; DIN VDE 0110, pollution degree 2, overvoltage category III |
| Test voltage coil/contact | 4 kV |
| Operating temperature | 0 to +55 °C |
| Insulation stripping length | 7 mm |
| Conductor cross-section | 0,2-2,5 mm ² /AWG 22-14 |
| Switch contact material | silver, gold plated |
| Mechanical life span switch | > 100 000 switching cycles |
| Max. voltage/current switch | 24 V / 2 A |
| Input data | |
| Max. input signal ±10% | 24 V AC/DC |
| Power consumption per input | 1 VA/0.5 W |
| LED "Watchdog-No." (only MGW 4-3 L/"channel no."/"Bedrijf"/"Storing") | yellow/yellow/green/red |
| Rated/Max. LED current (channel "Bedrijf" [1] and "Storing" [2]) | 5 mA/10 mA |
| Changeover contact for series or parallel operation (channel "Bedrijf" [1] and "Storing" [2]) | ON position: resistance (4 k 7) is short-circuited. Caution: LED MAX = 15 mA! |
| Power supply for manual operation (terminal H and N) | 24 V AC/DC |
| Output data | |
| Max. switching voltage | 250 V AC/DC |
| Max continuous current/inrush current | 6 A/8 A |
| Max. power rating (ohmic load) | 2000 VA at 250 V AC, 8 A/192 W at 24 V DC |
| Typical response time/release time | 10 ms/50 ms |
| Contact material | AgNi |
| Electrical life span at max. contact load | >3 x 10 ⁴ switching cycles |
| Mechanical life span | >30 x 10 ⁶ switching cycles |

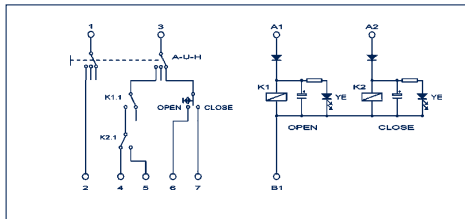
Digital switch modules with HAND/OFF/AUTOMATIC operation

- Mount on TS32/TS 35
- Screw connection
- LED indicator for displaying operational status
- HAND/OFF/AUTOMATIC switch and additional switch with switch settings OPEN/STOP/CLOSE
- Input suitable for AC and DC voltage

OD-1



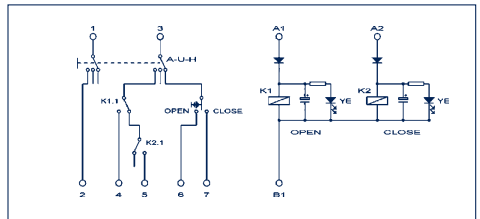
Circuit diagram



OD-2



Circuit diagram



| | |
|---|--|
| Type | |
| Cat. no./Qty. p.pck. | |
| Type | |
| Cat. no./Qty. p.pck. | |
| Size (L x W x H) with TS 35 x 7.5 | |
| Weight | |
| General information | |
| DIN-VDE specifications | |
| Test voltage coil/contact | |
| Operating temperature | |
| Insulation stripping length | |
| Conductor cross-section | |
| Switch contact material | |
| Mechanical life span switch | |
| Max. voltage/current switch | |
| Input data | |
| Max. input signal ±10% | |
| Power consumption per input | |
| Signaling the operational status | |
| Output data | |
| Max. switching voltage | |
| Max continuous current/inrush current | |
| Max. power rating (ohmic load) | |
| Typical response time/release time | |
| Contact material | |
| Electrical life span at max. contact load | |
| Mechanical life span | |

| | |
|--|--|
| OD-1 | |
| 6558.2/1 | |
| Size (L x W x H) | 87 x 66 x 63 mm |
| Weight | 103 g |
| General information | |
| DIN EN 50178; DIN VDE 0110, pollution degree 2, overvoltage category III | |
| Test voltage coil/contact | 4 kV |
| Operating temperature | 0 to +55°C |
| Insulation stripping length | 7 mm |
| Conductor cross-section | 0.2-2.5 mm ² /AWG 22-14 |
| Switch contact material | silver, gold plated |
| Mechanical life span switch | > 100 000 switching cycles |
| Max. voltage/current switch | 24 V/2 A |
| Input data | |
| Max. input signal ±10% | 24 V AC/DC |
| Power consumption per input | 1 VA/0.5 W |
| Signaling the operational status | - |
| Output data | |
| Max. switching voltage | 24 V AC/DC |
| Max continuous current/inrush current | 2 A/2 A |
| Max. power rating (ohmic load) | 48 VA at 24 V AC, 2 A/48 W at 24 V DC, 2 A |
| Typical response time/release time | 20 ms/100 ms |
| Contact material | AgNi |
| Electrical life span at max. contact load | >1.5 x 10 ⁵ switching cycles |
| Mechanical life span | >1 x 10 ⁷ switching cycles |

| | |
|--|--|
| OD-2 | |
| 6559.2/1 | |
| Size (L x W x H) | 87 x 66 x 63 mm |
| Weight | 103 g |
| General information | |
| DIN EN 50178; DIN VDE 0110, pollution degree 2, overvoltage category III | |
| Test voltage coil/contact | 4 kV |
| Operating temperature | 0 to +55°C |
| Insulation stripping length | 7 mm |
| Conductor cross-section | 0.2-2.5 mm ² /AWG 22-14 |
| Switch contact material | silver, gold plated |
| Mechanical life span switch | > 100 000 switching cycles |
| Max. voltage/current switch | 24 V/2 A |
| Input data | |
| Max. input signal ±10% | 24 V AC/DC |
| Power consumption per input | 1 VA/0.5 W |
| Signaling the operational status | - |
| Output data | |
| Max. switching voltage | 24 V AC/DC |
| Max continuous current/inrush current | 2 A/2 A |
| Max. power rating (ohmic load) | 48 VA at 24 V AC, 2 A/48 W at 24 V DC, 2 A |
| Typical response time/release time | 20 ms/100 ms |
| Contact material | AgNi |
| Electrical life span at max. contact load | >1.5 x 10 ⁵ switching cycles |
| Mechanical life span | >1 x 10 ⁷ switching cycles |

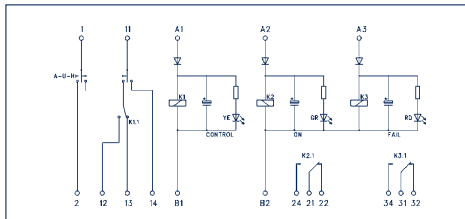
Digital switch modules with HAND/OFF/AUTOMATIC operation

- Mount on TS32/TS 35
- Screw connection
- LED indicator for displaying operational status
- Switch for HAND/OFF/AUTOMATIC operation
- With feedback loop
- Input suitable for AC and DC voltage

ASB-1



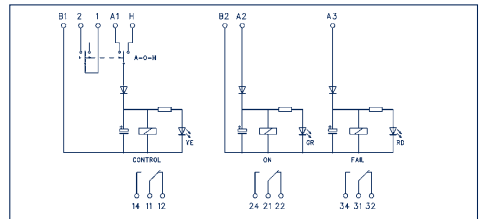
Circuit diagram



ASB-2



Circuit diagram



| | |
|---|--|
| Type | ASB-1 |
| Cat. no./Qty. p.pck. | 6760.2/1 |
| Type | ASB-1/DC |
| Cat. no./Qty. p.pck. | 7974.2/1 |
| Size (L x W x H) with TS 35 x 7.5 | 87 x 83 x 63 mm |
| Weight | 131 g |
| General information | |
| DIN-VDE specifications | DIN EN 50178; DIN VDE 0110, pollution degree 2, overvoltage category III |
| Test voltage coil/contact | 4 kV |
| Operating temperature | 0 to +55°C |
| Insulation stripping length | 7 mm |
| Conductor cross-section | 0.2-2.5mm ² /AWG 22-14 |
| Switch contact material | silver, gold plated |
| Mechanical life span switch | > 100 000 switching cycles |
| Max. voltage/current switch | 24 V/2 A or both poles 250 V AC/2 A |
| Input data | |
| Max. input signal ±10% | 24 V AC/DC (ASB-1 / DC: 24 V DC) |
| Power consumption per input | 1 VA/0.5 W |
| Output data | |
| Max. switching voltage | 250 V AC/DC |
| Max continuous current/inrush current | 6 A/8 A |
| Max. power rating (ohmic load) | 2000 VA at 250 V AC, 8 A/192 W at 24 V DC |
| Typical response time/release time | 20 ms/100 ms |
| Contact material | AgNi |
| Electrical life span at max. contact load | >1.5 x 10 ⁵ switching cycles |
| Mechanical life span | >1 x 10 ⁷ switching cycles |

| | |
|---|--|
| Type | ASB-2 |
| Cat. no./Qty. p.pck. | 6995.0/1 |
| Size (L x W x H) with TS 35 x 7.5 | 87 x 59 x 63 mm |
| Weight | 116 g |
| General information | |
| DIN-VDE specifications | DIN EN 50178; DIN VDE 0110, pollution degree 2, overvoltage category III |
| Test voltage coil/contact | 4 kV |
| Operating temperature | 0 to +55°C |
| Insulation stripping length | 7 mm |
| Conductor cross-section | 0.2-2.5mm ² /AWG 22-14 |
| Switch contact material | silver, gold plated |
| Mechanical life span switch | > 100 000 switching cycles |
| Max. voltage/current switch | 24 V/2 A |
| Input data | |
| Max. input signal ±10% | 24 V AC/DC |
| Power consumption per input | 1 VA/0.5 W |
| Output data | |
| Max. switching voltage | 250 V AC/DC |
| Max continuous current/inrush current | 6 A/8 A |
| Max. power rating (ohmic load) | 2000 VA at 250 V AC, 8 A/192 W at 24 V DC |
| Typical response time/release time | 20 ms/100 ms |
| Contact material | AgNi |
| Electrical life span at max. contact load | >1.5 x 10 ⁵ switching cycles |
| Mechanical life span | >1 x 10 ⁷ switching cycles |

| | |
|---|--|
| Type | ASB-2 |
| Cat. no./Qty. p.pck. | 6995.0/1 |
| Size (L x W x H) with TS 35 x 7.5 | 87 x 59 x 63 mm |
| Weight | 116 g |
| General information | |
| DIN-VDE specifications | DIN EN 50178; DIN VDE 0110, pollution degree 2, overvoltage category III |
| Test voltage coil/contact | 4 kV |
| Operating temperature | 0 to +55°C |
| Insulation stripping length | 7 mm |
| Conductor cross-section | 0.2-2.5mm ² /AWG 22-14 |
| Switch contact material | silver, gold plated |
| Mechanical life span switch | > 100 000 switching cycles |
| Max. voltage/current switch | 24 V/2 A |
| Input data | |
| Max. input signal ±10% | 24 V AC/DC |
| Power consumption per input | 1 VA/0.5 W |
| Output data | |
| Max. switching voltage | 250 V AC/DC |
| Max continuous current/inrush current | 6 A/8 A |
| Max. power rating (ohmic load) | 2000 VA at 250 V AC, 8 A/192 W at 24 V DC |
| Typical response time/release time | 20 ms/100 ms |
| Contact material | AgNi |
| Electrical life span at max. contact load | >1.5 x 10 ⁵ switching cycles |
| Mechanical life span | >1 x 10 ⁷ switching cycles |

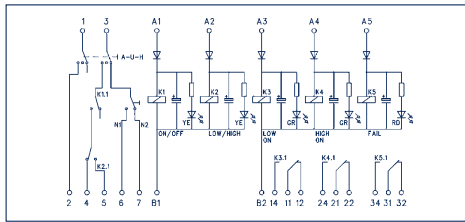
Digital switch modules with HAND/OFF/AUTOMATIC operation

- Mount on TS32/TS 35
- Screw connection
- LED indicator for displaying operational status
- Switch for HAND/OFF/AUTOMATIC operation
- HLSW-3: integrated Watchdog
- Feedback loop
- Input suitable for AC and DC voltage

HLS-2



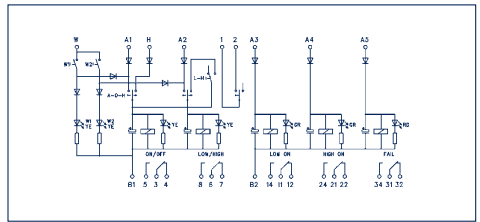
Circuit diagram



HLSW-3



Circuit diagram



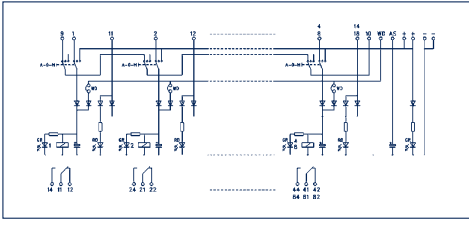
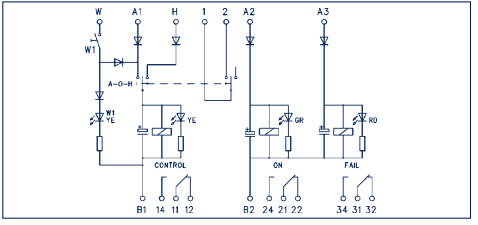


| | |
|---|--|
| Type | |
| Cat. no./Qty. p.pck. | |
| Type | |
| Cat. no./Qty. p.pck. | |
| Size (L x W x H) with TS 35 x 7.5 | |
| Weight | |
| General information | |
| DIN-VDE specifications | |
| Test voltage coil/contact | |
| Operating temperature | |
| Insulation stripping length | |
| Conductor cross-section | |
| Switch contact material | |
| Mechanical life span switch | |
| Max. voltage/current switch | |
| Input data | |
| Max. input signal ±10% | |
| Power consumption per input | |
| Output data | |
| Max. switching voltage | |
| Max continuous current/inrush current | |
| Max. power rating (ohmic load) | |
| Typical response time/release time | |
| Contact material | |
| Electrical life span at max. contact load | |
| Mechanical life span | |


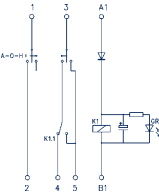
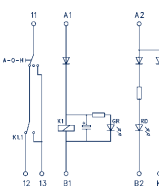
| | |
|--|--|
| HLS-2 | |
| 7877.2/1 | |
| 87 x 93 x 63 mm | |
| 172 g | |
| DIN EN 50178; DIN VDE 0110, pollution degree 2, overvoltage category III | |
| 4 kV | |
| 0 to +55°C | |
| 7 mm | |
| 0.2-2.5 mm ² /AWG 22-14 | |
| silver, gold plated | |
| > 100 000 switching cycles | |
| 24 V / 2 A | |
| 24 V AC/DC | |
| 1 VA/0.5 W | |
| 250 V AC/DC | |
| 6 A/8 A | |
| 2000 VA at 250 V AC, 8 A/192 W at 24 V DC | |
| 20 ms/100 ms | |
| AgNi | |
| >1.5 x 10 ⁵ switching cycles | |
| >1 x 10 ⁷ switching cycles | |

| | |
|--|--|
| HLSW-3 | |
| 15042.2/1 | |
| 87 x 96 x 63 mm | |
| 176 g | |
| DIN EN 50178; DIN VDE 0110, pollution degree 2, overvoltage category III | |
| 4 kV | |
| 0 to +55°C | |
| 7 mm | |
| 0.2-2.5 mm ² /AWG 22-14 | |
| silver, gold plated | |
| > 100 000 switching cycles | |
| 24 V / 2 A | |
| 24 V AC/DC | |
| 1 VA/0.5 W | |
| 250 V AC/DC | |
| 6 A/8 A | |
| 2000 VA at 250 V AC, 8 A/192 W at 24 V DC | |
| 20 ms/100 ms | |
| AgNi | |
| >1.5 x 10 ⁵ switching cycles | |
| >1 x 10 ⁷ switching cycles | |

Digital switch modules with HAND/OFF/AUTOMATIC operation and Watchdog

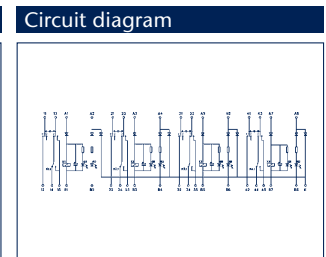
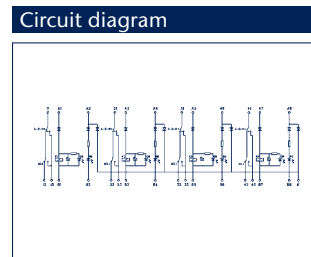
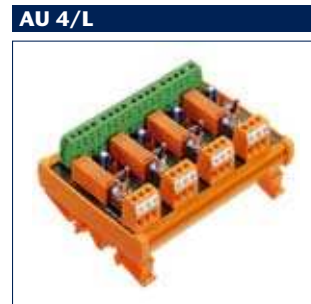
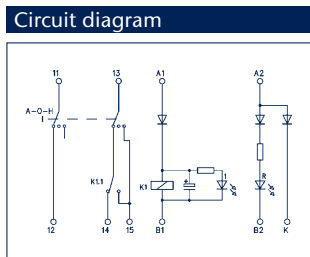
| | | |
|---|--|---|
| <ul style="list-style-type: none"> · Mount on TS32/TS 35 · Screw connection · Switch for HAND/OFF/AUTOMATIC per-channel operation · Feedback loop for automatic operation · ASBW-2: Transparent cover plate, i.e. for fastening labelling fields · IM 4 module with 4 relays, IM 8 modules with 8 relays · LED indicator for displaying operational status per-channel · Input suitable for AC and DC voltage | <p>IM 4 / IM 8</p>  | <p>ASBW-2</p>  |
| | <p>Circuit diagram</p>  | <p>Circuit diagram</p>  |
| <p>Type Cat. no./Qty. p.pck.</p> | <p>IM 4 6280.2/1</p> | <p>ASBW-2 15097.2/1</p> |
| <p>Type Cat. no./Qty. p.pck.</p> | <p>IM 8 6281.2/1</p> | |
| <p>Size (L x W x H) with TS 35 x 7.5</p> | <p>122 x 122/186 x 68 mm</p> | <p>87 x 59 x 68 mm</p> |
| <p>Weight</p> | <p>216 g/382 g</p> | <p>126 g</p> |
| <p>General information DIN-VDE specifications</p> | <p>DIN EN 50178; DIN VDE 0110, pollution degree 2, overvoltage category III</p> | <p>DIN EN 50178; DIN VDE 0110, pollution degree 2, overvoltage category III</p> |
| <p>Test voltage coil/contact</p> | <p>4 kV</p> | <p>4 kV</p> |
| <p>Operating temperature</p> | <p>0 to +55°C</p> | <p>0 to +55°C</p> |
| <p>Insulation stripping length</p> | <p>7 mm</p> | <p>7 mm</p> |
| <p>Conductor cross-section</p> | <p>0.2-2.5mm²/AWG 22-14</p> | <p>0.2-2.5mm²/AWG 22-14</p> |
| <p>Switch contact material</p> | <p>silver, gold plated</p> | <p>silver, gold plated</p> |
| <p>Mechanical life span switch</p> | <p>> 100 000 switching cycles</p> | <p>> 100 000 switching cycles</p> |
| <p>Max. voltage/current switch</p> | <p>24 V/2 A</p> | <p>24 V/2 A</p> |
| <p>Input data</p> | | |
| <p>Rated input voltage ±10%</p> | <p>24 V AC/DC</p> | <p>24 V AC/DC</p> |
| <p>Rated power consumption per relay</p> | <p>1 VA/0.5 W</p> | <p>1 VA/0.5 W</p> |
| <p>"WD" watchdog input signal</p> | <p>24 V AC/DC; 80 mA ±10%</p> | <p>24 V AC/DC; 80 mA ±10%</p> |
| <p>Output data</p> | | |
| <p>Max. switching voltage</p> | <p>250 V AC/DC</p> | <p>250 V AC/DC</p> |
| <p>Max continuous current/inrush current</p> | <p>6 A/8 A</p> | <p>6 A/8 A</p> |
| <p>Max. power rating (ohmic load)</p> | <p>2000 VA at 250 V AC, 8 A/192 W at 24 V DC</p> | <p>2000 VA at 250 V AC, 8 A/192 W at 24 V DC</p> |
| <p>Typical response time/release time</p> | <p>20 ms/50 ms</p> | <p>20 ms/50 ms</p> |
| <p>Contact material</p> | <p>AgNi</p> | <p>AgNi</p> |
| <p>Electrical life span at max. contact load</p> | <p>>1.5 x 10⁵ switching cycles</p> | <p>>1.5 x 10⁵ switching cycles</p> |
| <p>Mechanical life span</p> | <p>>1 x 10⁷ switching cycles</p> | <p>>1 x 10⁷ switching cycles</p> |

Digital switch modules with HAND/OFF/AUTOMATIC operation

| | | |
|--|--|--|
| <ul style="list-style-type: none"> Mount on TS32/TS 35 Screw connection LED indicator for displaying operational status Switch for HAND/OFF/AUTOMATIC operation Optionally with feedback loop Input suitable for AC and DC voltage | <p>AU-1</p>  | <p>AU-1/L</p>  |
| | <p>Circuit diagram</p>  | <p>Circuit diagram</p>  |
| <p>Type Cat. no./Qty. p.pck.</p> | <p>AU-1 6562.2/1</p> | <p>AU-1/L 6563.2/1</p> |
| <p>Size (L x W x H) with TS 35 x 7.5</p> | <p>87 x 43 x 63 mm</p> | <p>87 x 34 x 63 mm</p> |
| <p>Weight</p> | <p>71 g</p> | <p>65 g</p> |
| <p>General information DIN-VDE specifications</p> | <p>DIN EN 50178; DIN VDE 0110, pollution degree 2, overvoltage category III</p> | <p>DIN EN 50178; DIN VDE 0110, pollution degree 2, overvoltage category III</p> |
| <p>Test voltage coil/contact</p> | <p>4 kV</p> | <p>4 kV</p> |
| <p>Operating temperature</p> | <p>0 to +55°C</p> | <p>0 to +55°C</p> |
| <p>Insulation stripping length</p> | <p>7 mm</p> | <p>7 mm</p> |
| <p>Conductor cross-section</p> | <p>0.2-2.5 mm²/AWG 22-14</p> | <p>0.2-2.5 mm²/AWG 22-14</p> |
| <p>Switch contact material</p> | <p>silver, gold plated</p> | <p>silver, gold plated</p> |
| <p>Mechanical life span switch</p> | <p>> 100 000 switching cycles</p> | <p>> 100 000 switching cycles</p> |
| <p>Max. voltage/current switch</p> | <p>24 V / 2 A or both poles 250 V AC / 2 A</p> | <p>250 V AC / 2 A</p> |
| <p>Input data</p> | | |
| <p>Max. input signal ±10%</p> | <p>24 V AC/DC</p> | <p>24 V AC/DC</p> |
| <p>Power consumption per input</p> | <p>1 VA/0.5 W</p> | <p>1 VA/0.5 W</p> |
| <p>Output data</p> | | |
| <p>Max. switching voltage</p> | <p>250 V AC/DC</p> | <p>250 V AC/DC</p> |
| <p>Max continuous current/inrush current</p> | <p>2 A / 2 A</p> | <p>2 A / 2 A</p> |
| <p>Max. power rating (ohmic load)</p> | <p>500 VA at 250 V AC, 2 A / 48 W at 24 V DC, 2 A</p> | <p>500 VA at 250 V AC, 2 A / 48 W at 24 V DC, 2 A</p> |
| <p>Typical response time/release time</p> | <p>20 ms / 100 ms</p> | <p>20 ms / 100 ms</p> |
| <p>Contact material</p> | <p>AgNi</p> | <p>AgNi</p> |
| <p>Electrical life span at max. contact load</p> | <p>>1.5 x 10⁵ switching cycles</p> | <p>>1.5 x 10⁵ switching cycles</p> |
| <p>Mechanical life span</p> | <p>>1 x 10⁷ switching cycles</p> | <p>>1 x 10⁷ switching cycles</p> |

Digital switch modules with HAND/OFF/AUTOMATIC operation

- Mount on TS32/TS 35
- Screw connection
- LED indicator for displaying operational status
- Switch for HAND/OFF/AUTOMATIC operation
- Optionally with feedback loop
- Input suitable for AC and DC voltage

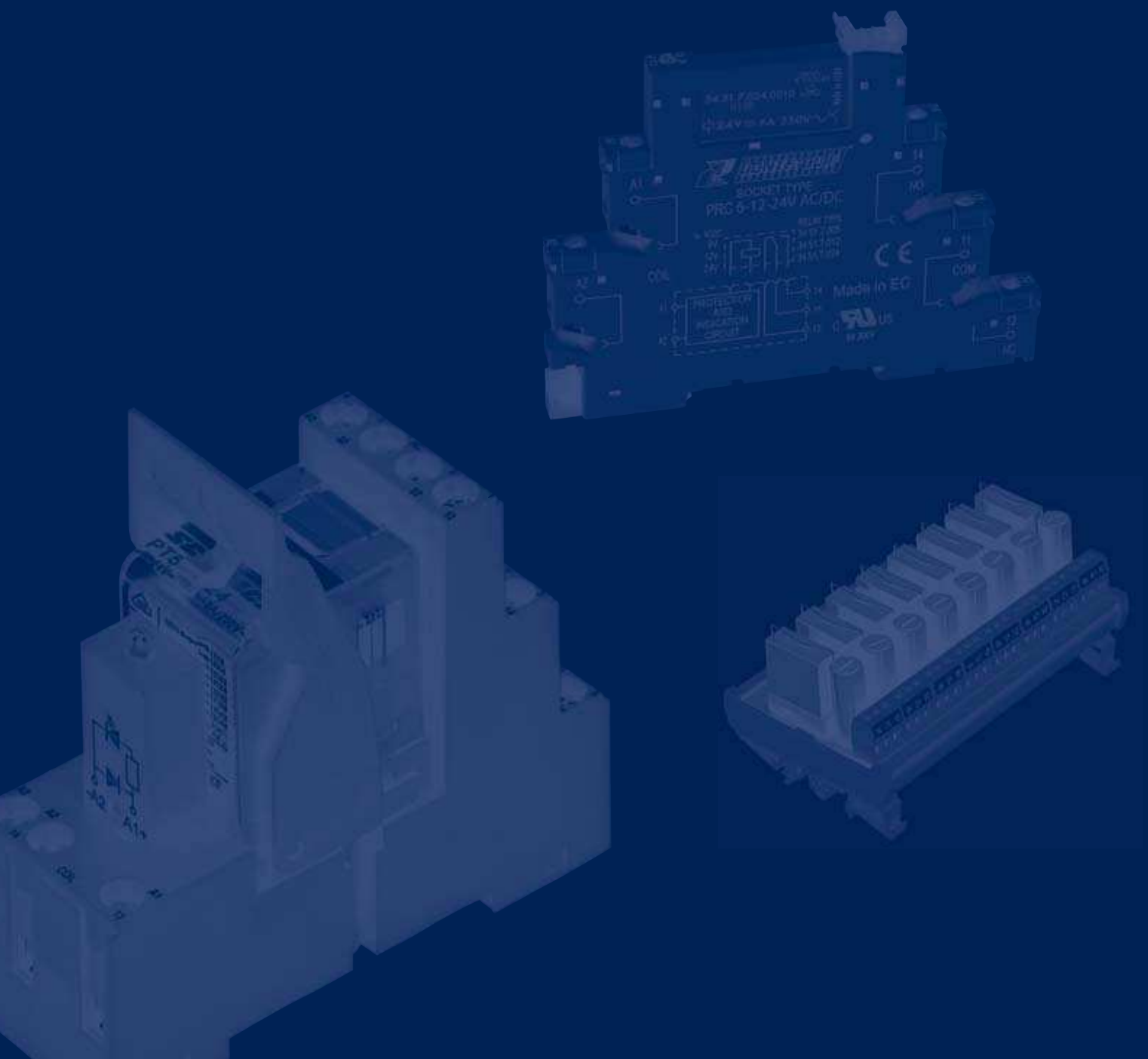


| Type | AU 1/2 L | AU 4/L | AU 4/2 L |
|---|--|--|--|
| Cat. no./Qty. p.pck. | 6430.2/1 | 6564.2/1 | 6431.2/1 |
| Size (L x W x H) with TS 35 x 7.5 | 87 x 34 x 63 mm | 87 x 118 x 63 mm | 87 x 118 x 63 mm |
| Weight | 70 g | 198 g | 216 g |
| General information | | | |
| DIN-VDE specifications | DIN EN 50178; DIN VDE 0110, pollution degree 2, overvoltage category III | DIN EN 50178; DIN VDE 0110, pollution degree 2, overvoltage category III | DIN EN 50178; DIN VDE 0110, pollution degree 2, overvoltage category III |
| Test voltage coil/contact | 4 kV | 4 kV | 4 kV |
| Operating temperature | 0 to +55°C | 0 to +55°C | 0 to +55°C |
| Insulation stripping length | 7 mm | 7 mm | 7 mm |
| Conductor cross-section | 0.2-2.5mm ² /AWG 22-14 | 0.2-2.5mm ² /AWG 22-14 | 0.2-2.5mm ² /AWG 22-14 |
| Switch contact material | silver, gold plated | silver, gold plated | silver, gold plated |
| Mechanical life span switch | > 100 000 switching cycles | > 100 000 switching cycles | > 100 000 switching cycles |
| Max. voltage/current switch | 24 V/2 A or both poles 250 V AC/2 A | 250 V AC/2 A | 24 V/2 A or both poles 250 V AC/2 A |
| Input data | | | |
| Max. input signal ±10% | 24 V AC/DC | 24 V AC/DC | 24 V AC/DC |
| Power consumption per input | 1 VA/0.5 W | 1 VA/0.5 W | 1 VA/0.5 W |
| Output data | | | |
| Max. switching voltage | 250 V AC/DC | 250 V AC/DC | 250 V AC/DC |
| Max continuous current/inrush current | 2 A/2 A | 2 A/2 A | 2 A/2 A |
| Max. power rating (ohmic load) | 500 VA at 250 V AC, 2 A/ 48 W at 24 V DC, 2 A | 500 VA at 250 V AC, 2 A/ 48 W at 24 V DC, 2 A | 500 VA at 250 V AC, 2 A/ 48 W at 24 V DC, 2 A |
| Typical response time/release time | 20 ms/100 ms | 20 ms/100 ms | 20 ms/100 ms |
| Contact material | AgNi | AgNi | AgNi |
| Electrical life span at max. contact load | >1.5 x 10 ⁵ switching cycles | >1.5 x 10 ⁵ switching cycles | >1.5 x 10 ⁵ switching cycles |
| Mechanical life span | >1 x 10 ⁷ switching cycles | >1 x 10 ⁷ switching cycles | >1 x 10 ⁷ switching cycles |

Relay Systems

Relay technology continues to play a large role in the reliability of industrial control and automation solutions. Because of their thin design, relay couplers find use in rail-oriented control designs. Thanks to their features, **CONTA-CLIP** relay couplers are well-suited for use in secure electrical isolation of circuits or for the multiplication of contacts.

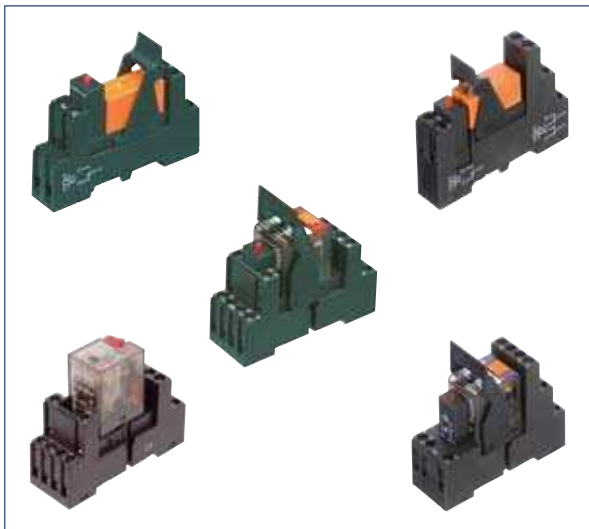
Whether it is in manufacturing, electrical machine and plant instrumentation, control engineering, building automation, or process engineering – everywhere it is important to guarantee that the signal exchange between the peripheral devices and the upper-level central control and instrumentation systems remains potential-free and operationally safe.





Compact plug relays PRC

PRC relay couplers distinguish themselves by their compact shape in the terminal block design. With a width of only 6.2 mm and a switchable continuous current from 6 amps, there are many application possibilities. The basis relay offers 22 versions, including screw and tension-spring connections, and available coil voltages from 6 to 24 VDC and from 12 to 240 VAC/DC. With the **AQI** cross-connection system, mutual potentials can be carried out over the coil or contact sides. For excellent equipment identification, the socket base has a labelling surface for the standard **PMC BSTR 6/30** marking system. **CONTA-CLIP** also offers a customer-specific labelling service, in addition to the standard marking.



Plug relay system PRS

PRS relay couplers are available in one-, two- and four-change-over design. The relay plug-in modules are designed for a measured voltage from 300 V. They can be combined with relays (in the coil-voltage range of 12 to 220 VDC and 12 to 230 VAC) and the appropriate insert-modules or status displays. In order to guarantee that the relay is mechanically snug in the frame, a relay holding-clamp can be mounted. The switchable continuous current is 12 amps for the one- and two-CO versions, and 6 amps for the four-CO versions. The **PRS...G** types have electrical contacts which are designed so that the coil side and the contact side are arranged separately from another. The relay frame, relay insert module and holding-clamp can be modularly assembled and combined.



Relay modules RM and RIM

RM and **RIM** are relay interfaces which offer an advantage over the single-relay base systems. On a PCB, the circuit track can be pre-wired, such as the shared plus, minus, and neutral wire potentials on the coil side.

The relay connection is implemented with either screw terminals, ribbon connectors, or d-subminiature connectors.

The correct solution for every user application is provided for: varying coil voltage ranges in designs of soldered or pluggable relays, with or without status display, and two-, four-, eight-, and sixteen-fold relay modules.

The **RIMS** versions also feature a toggle switch in the input/coil circuit. This enables switching to HAND, OFF, or AUTOMATIC.

The **RIMF** modules implement a 5x20-sized miniature fuse receptacle in the output/contact circuit.

Compact plug relays PRC

Relay terminals

1. Overview

a Labelling | Marking
The socket bases have a labelling surface which is optimally suited for our **PMC Pocket-Maxicard (PMC BSTR 6/30)** standard marking systems. In addition to our large variety of standard labels, **CONTA-CLIP** can also provide "just-in-time" individual labelling for you.



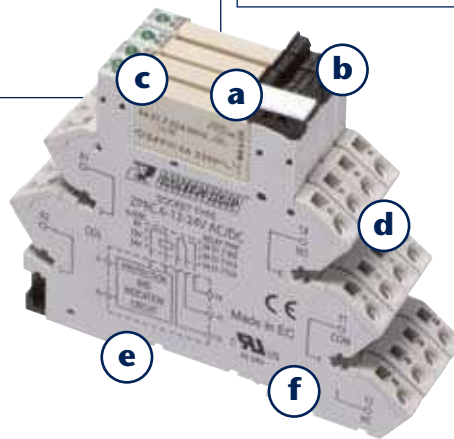
b Using the mount/dismount lever
The mounting and dismounting mechanism forms a reliable connection by latching the relay with the socket base. The fitted relay can be removed, easily and without force, from the socket base by using the dismount function of the lever!



d Pluggable external cross-connections
The AQI/PRC pluggable cross-connection system enables a time-saving distribution of potentials. The AQI/PRC is constructed so that it is protected against accidental touch. It is available as a 20-pole unit, in either yellow, blue or black. The cross-connector can be shortened to fewer poles in order to fit the required interface. Insulation plating can be used to insulate the ends.



c Pluggable relays
Pluggable relays are also available with AgSNO and gold contacts, to fit with the many functions of your individual requirements!



e Mounts on standard TS 35 rail
CONTA-CLIP relay terminal can be flexibly mounted on standard TS 35 mounting rails according to EN 50035 and EN 50022.

f Connection types
All of our relay terminals are optionally available with screw or tension-spring connection systems.



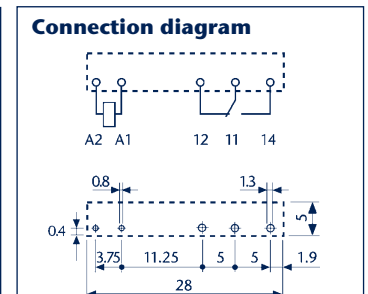
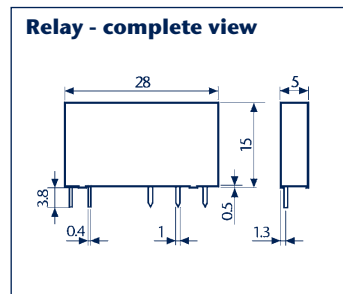
2. Approvals (Details upon request.)



3. Features

1. Relay

- 5 mm width, extremely narrow monitoring relay
- Sensitive DC coil, 170 mW
- Secure isolation between the coil and the contacts, according to VDE 0160/EN 50178
- 6 mm clearance distance, 8 mm creepage distance
- 6 kV (1.2/50 μs)
- Protection class II, according to VDE 0631/EN 60730

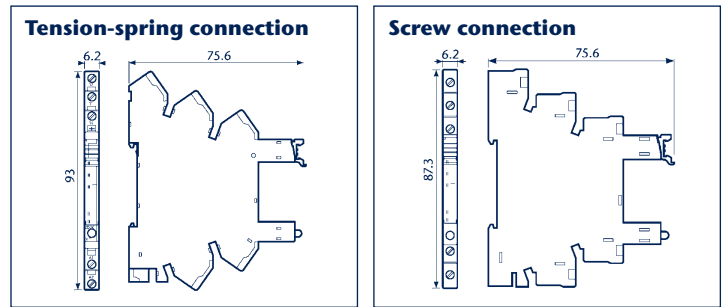


Compact plug relays PRC

Relay terminals

II. Socket base

- Mount on TS 35
- Very flexible and modular construction of individual relay bases
- User-friendly, because the relays can be easily replaced
- High-quality connecting terminals (tension-spring or screw connection system)
- Integrated EMC coil circuitry, and LED
- High-quality innovative mount/dismount lever
- All versions are optionally available with screw or tension-spring connection system



4. Specifications

Electro-mechanical relay

Insulation properties

| | | |
|---|-------------------------------|-----|
| Insulation coordination, according to EN 61810-1, VDE 0435 T 201. | Rated insulation voltage of V | 250 |
| | Rated surge voltage kV | 4 |
| | Pollution degree | 3 |
| | Overvoltage category | III |

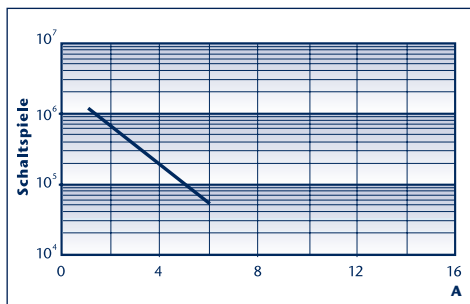
EMC - interference immunity of the control circuit (coil)

| | | |
|---|--------------|----------------|
| BURST (5... 50) ns, 5 kHz, on A 1-A 2 | EN 61000-4-4 | class 4 (4 kV) |
| SURGE (1.2/50) μ s on A 1-A 2 (differential mode) | EN 61000-4-5 | class 3 (2 kV) |

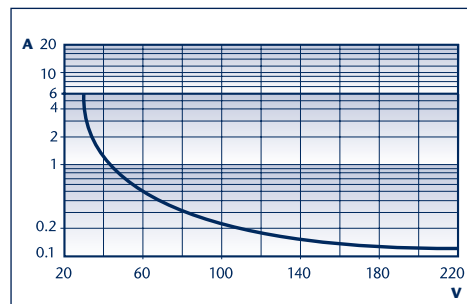
Additional data

| | | |
|--|---------------------------|--------------------------|
| Bounce time by closure of the NO/NC | ms | 1/6 |
| Resistance to vibration (10... 55 Hz, max \pm 1 mm): | | |
| | NO/NC g/g | 10/5 flux density |
| Ambient heat dissipation | without contact current W | 0.2 (12 V) - 0.9 (240 V) |
| | by continuous current W | 0.5 (12 V) - 1.5 (240 V) |

5. Contact data



Service life of contact under AC 1 load



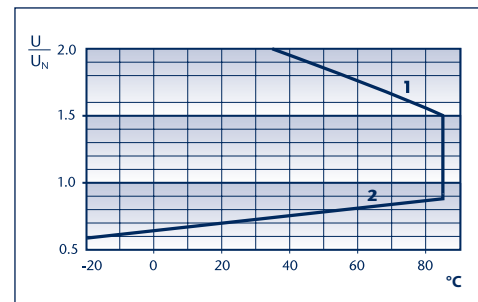
Switching capacity under DC 1 load

- Under resistive load (DC 1) and with an intersection of current and voltage that lies under the curve: this is an indication of an electrical life span greater to or equal to 100,000 switching cycles.
- Under an inductive load (DC 13), a free-wheel diode must be switched parallel to the load. Note: the return time is increased.

6. Coil data

DC version

| Rated voltage | Operating Range | | Resistance | Rated current |
|---------------|-----------------|----------------|------------|---------------|
| | U_N V | U_{min} V | | |
| 5 | 3.5 | 7.5 | 130 | 38.4 |
| 12 | 8.4 | 18 | 840 | 14.2 |
| 24 | 16.8 | 36 | 3.350 | 7.1 |
| 48 | 33.6 | 72 | 12.300 | 3.9 |
| 60 | 42 | 90 | 19.700 | 3 |



Reliable range of operating voltage

- 1 Max. permitted coil voltage
- 2 Response voltage, when coil temperature equal to ambient temperature

Compact plug relays PRC

Tension-spring relay terminals

- Consisting of:
basic terminal and pluggable relay.
- Mount on TS 35

ZPRCU 1/6V DC



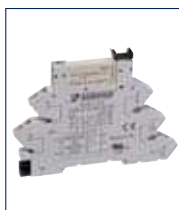
ZPRCU 1/12V DC



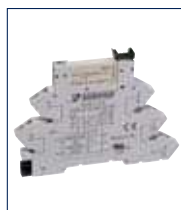
ZPRCU 1/24V DC



ZPRCU 1/12V AC/DC

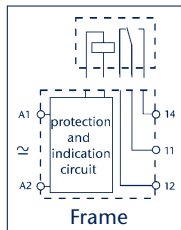
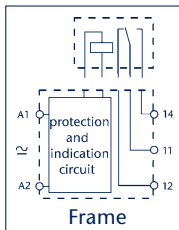
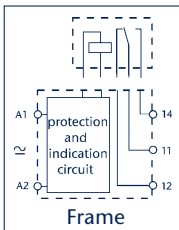
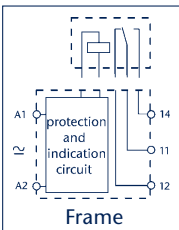
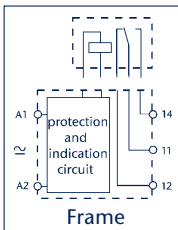


ZPRCU 1/24V AC/DC



Connection diagram

- Internal EMC coil circuitry and LED display
- LW versions:
an internal AC residual-current suppression
and LED display



Type

Cat. no./Qty. p.pck. Type/Colour grey (RAL 7032)

Size (L x W x H) with TS 35 x 7.5

Weight

Rated operating voltage

General information

Mech. life span AC/DC switching cycles

Electrical life span AC 1 switching cycles

Response time/release time

Insulation coordination, EN 61810-5

Dielectric strength coil/contacts (1.2/50 µs)

Dielectric strength of open contacts

Ambient temperature

Relay protection type

Ratings for socket base

Ambient temperature

Insulation stripping length

Max. connection cross-section, solid | flexible mm²

AWG

Ratings for plug-relays combined with socket base

Contacts

Number of contacts

Max. continuous current | Max. inrush current

Rated voltage | Max. switching voltage

Max. power rating AC 1

Max. power rating AC 15 (230 V AC)

1-phase motor load, AC 3 operation (230 V AC)

Max. switching current DC 1:30/110/220 V

Min. switching load

Standard contact material

Coil

Rated voltage (U_N)

Power rating AC/DC

Operating range

Holding current

Drop-out voltage

ZPRCU 1/6V DC

15524.2/10

93 x 6.2 x 79.9 mm

36 g

6 V DC

–/10 x 10⁶

60 x 10³

5/6 ms

4 kV/3

6 kV

1,000 V AC

–40 to +70 °C

RT II

–40 to +70 °C

10 mm

1x2.5/2x1.5 | 1x2.5/2x1.5

1x14/2x16 | 1x14/2x16

1 CO contact

6/10 A

250/400 V AC*

1,500 VA

300 VA

0.185 kW

6/0.2/0.12 A

300 (5/5) mW (V/mA)

AgNi

5 V DC | – AC

0.2 W

– AC (50/60 Hz)

(0.8 to 1.2) U_N DC

–AC/0.6 U_N DC

–AC/0.05 U_N DC

ZPRCU 1/12V DC

15525.2/10

93 x 6.2 x 79.9 mm

36 g

12 V DC

–/10 x 10⁶

60 x 10³

5/6 ms

4 kV/3

6 kV

1,000 V AC

–40 to +70 °C

RT II

–40 to +70 °C

10 mm

1x2.5/2x1.5 | 1x2.5/2x1.5

1x14/2x16 | 1x14/2x16

1 CO contact

6/10 A

250/400 V AC*

1,500 VA

300 VA

0.185 kW

6/0.2/0.12 A

300 (5/5) mW (V/mA)

AgNi

12 V DC | – AC

0.2 W

– AC (50/60 Hz)

(0.8 to 1.2) U_N DC

–AC/0.6 U_N DC

–AC/0.05 U_N DC

ZPRCU 1/24V DC

15526.2/10

93 x 6.2 x 79.9 mm

36 g

24 V DC

–/10 x 10⁶

60 x 10³

5/6 ms

4 kV/3

6 kV

1,000 V AC

–40 to +70 °C

RT II

–40 to +70 °C

10 mm

1x2.5/2x1.5 | 1x2.5/2x1.5

1x14/2x16 | 1x14/2x16

1 CO contact

6/10 A

250/400 V AC*

1,500 VA

300 VA

0.185 kW

6/0.2/0.12 A

300 (5/5) mW (V/mA)

AgNi

24 V DC | – AC

0.2 W

– AC (50/60 Hz)

(0.8 to 1.2) U_N DC

–AC/0.6 U_N DC

–AC/0.05 U_N DC

ZPRCU 1/12V AC/DC

15518.2/10

93 x 6.2 x 79.9 mm

36 g

12 V AC/DC

10 x 10⁶/10 x 10⁶

60 x 10³

5/6 ms

4 kV/3

6 kV

1,000 V AC

–40 to +70 °C

RT II

–40 to +70 °C

10 mm

1x2.5/2x1.5 | 1x2.5/2x1.5

1x14/2x16 | 1x14/2x16

1 CO contact

6/10 A

250/400 V AC*

1,500 VA

300 VA

0.185 kW

6/0.2/0.12 A

300 (5/5) mW (V/mA)

AgNi

12 V DC | 12 AC

0.2 W

(0.8 to 1.1) U_N AC (50/60 Hz)

(0.8 to 1.2) U_N DC

0.6 U_N AC/0.6 U_N DC

0.1 U_N AC/0.05 U_N DC

ZPRCU 1/24V AC/DC

15519.2/10

93 x 6.2 x 79.9 mm

36 g

24 V AC/DC

10 x 10⁶/10 x 10⁶

60 x 10³

5/6 ms

4 kV/3

6 kV

1,000 V AC

–40 to +70 °C

RT II

–40 to +70 °C

10 mm

1x2.5/2x1.5 | 1x2.5/2x1.5

1x14/2x16 | 1x14/2x16

1 CO contact

6/10 A

250/400 V AC*

1,500 VA

300 VA

0.185 kW

6/0.2/0.12 A

300 (5/5) mW (V/mA)

AgNi

24 V DC | 24 AC

0.2 W

(0.8 to 1.1) U_N AC (50/60 Hz)

(0.8 to 1.2) U_N DC

0.6 U_N AC/0.6 U_N DC

0.1 U_N AC/0.05 U_N DC

Individual components, socket base

Type/Colour grey (RAL 7032)

Cat. no./Qty. p.pck.

ZPRC 6-12-24V DC

15494.2/10

ZPRC 6-12-24V DC

15494.2/10

ZPRC 6-12-24V DC

15494.2/10

ZPRC 6-12-24V AC/DC

15492.2/10

ZPRC 6-12-24V AC/DC

15492.2/10

Individual components, plug relays

Type/Rated voltage

Cat. no./Qty. p.pck.

PRC 1/5V DC

15500.2/10*³

PRC 1/12V DC

15501.2/10*³

PRC 1/24V DC

15502.2/10*³

PRC 1/12V DC

15501.2/10*³

PRC 1/24V DC

15502.2/10*³

Accessories AQI/PRC external insulated cross-connector

AQI/PRC/20

AQI/PRC/20

AQI/PRC/20

AQI/PRC/20

AQI/PRC/20

Cat. no./Qty. p.pck. yellow

15545.8/1

15545.8/1

15545.8/1

15545.8/1

15545.8/1

Cat. no./Qty. p.pck. blue

15545.5/1

15545.5/1

15545.5/1

15545.5/1

15545.5/1

Cat. no./Qty. p.pck. black

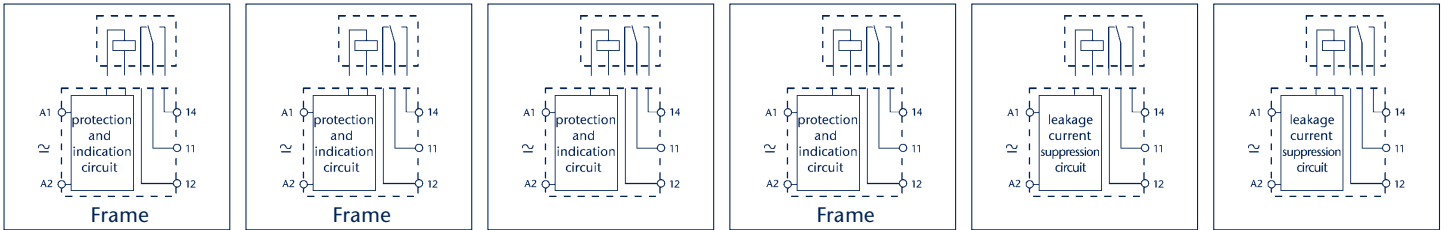
15545.4/1

15545.4/1

15545.4/1

15545.4/1

ZPRCU 1/48V AC/DC ZPRCU 1/60V AC/DC ZPRCU 1/125V AC/DC ZPRCU 1/240V AC/DC ZPRCU LW 1/125V AC/DC ZPRCU LW 1/240V AC



| | | | | | |
|---|---|--|--|---|--|
| ZPRCU 1/48V AC/DC 15520.2/10 | ZPRCU 1/60V AC/DC 15521.2/10 | ZPRCU 1/125V AC/DC 15522.2/10*2 | ZPRCU 1/240V AC/DC 15523.2/10*2 | ZPRCU LW 1/125V AC/DC 15551.2/10*2 | ZPRCU LW 1/240V AC 15552.2/10*2 |
| 93 x 6.2 x 79.9 mm | 93 x 6.2 x 79.9 mm | 93 x 6.2 x 79.9 mm | 93 x 6.2 x 79.9 mm | 93 x 6.2 x 79.9 mm | 93 x 6.2 x 79.9 mm |
| 36 g | 36 g | 36 g | 36 g | 36 g | 36 g |
| 48V AC/DC | 60V AC/DC | 125V AC/DC | 230V AC/DC | 125V AC/DC | 230V AC |
| 10 x 10 ⁶ /10 x 10 ⁶ | 10 x 10 ⁶ /10 x 10 ⁶ | 10 x 10 ⁶ /10 x 10 ⁶ | 10 x 10 ⁶ /10 x 10 ⁶ | 10 x 10 ⁶ /10 x 10 ⁶ | 10 x 10 ⁶ /10 x 10 ⁶ |
| 60 x 10 ³ | 60 x 10 ³ | 60 x 10 ³ | 60 x 10 ³ | 60 x 10 ³ | 60 x 10 ³ |
| 5/6 ms | 5/6 ms | 5/6 ms | 5/6 ms | 5/6 ms | 5/6 ms |
| 4 kV/3 | 4 kV/3 | 4 kV/3 | 4 kV/3 | 4 kV/3 | 4 kV/3 |
| 6 kV | 6 kV | 6 kV | 6 kV | 6 kV | 6 kV |
| 1,000 V AC | 1,000 V AC | 1,000 V AC | 1,000 V AC | 1,000 V AC | 1,000 V AC |
| -40 to +70 °C | -40 to +70 °C | -40 to +70 °C | -40 to +70 °C | -40 to +70 °C | -40 to +70 °C |
| RT II | RT II | RT II | RT II | RT II | RT II |
| -40 to +70 °C | -40 to +70 °C | -40 to +70 °C | -40 to +70 °C | -40 to +70 °C | -40 to +70 °C |
| 10 mm | 10 mm | 10 mm | 10 mm | 10 mm | 10 mm |
| 1x2.5/2x1.5 1x2.5/2x1.5 | 1x2.5/2x1.5 1x2.5/2x1.5 | 1x2.5/2x1.5 1x2.5/2x1.5 | 1x2.5/2x1.5 1x2.5/2x1.5 | 1x2.5/2x1.5 1x2.5/2x1.5 | 1x2.5/2x1.5 1x2.5/2x1.5 |
| 1x14/2x16 1x14/2x16 | 1x14/2x16 1x14/2x16 | 1x14/2x16 1x14/2x16 | 1x14/2x16 1x14/2x16 | 1x14/2x16 1x14/2x16 | 1x14/2x16 1x14/2x16 |
| 1 CO contact | 1 CO contact | 1 CO contact | 1 CO contact | 1 CO contact | 1 CO contact |
| 6/10 A | 6/10 A | 6/10 A | 6/10 A | 6/10 A | 6/10 A |
| 250/400 V AC* | 250/400 V AC* | 250/400 V AC* | 250/400 V AC* | 250/400 V AC* | 250/400 V AC* |
| 1,500 VA | 1,500 VA | 1,500 VA | 1,500 VA | 1,500 VA | 1,500 VA |
| 300 VA | 300 VA | 300 VA | 300 VA | 300 VA | 300 VA |
| 0.185 kW | 0.185 kW | 0.185 kW | 0.185 kW | 0.185 kW | 0.185 kW |
| 6/0.2/0.12 A | 6/0.2/0.12 A | 6/0.2/0.12 A | 6/0.2/0.12 A | 6/0.2/0.12 A | 6/0.2/0.12 A |
| 300 (5/5) mW (V/mA) | 300 (5/5) mW (V/mA) | 300 (5/5) mW (V/mA) | 300 (5/5) mW (V/mA) | 300 (5/5) mW (V/mA) | 300 (5/5) mW (V/mA) |
| AgNi | AgNi | AgNi | AgNi | AgNi | AgNi |
| 48 V DC 48 AC | 60 V DC 60 AC | 110...125 V DC 110...125 AC | 220...240 V DC 220...240 AC | 110...125 V DC 110...125 AC | - V DC 220...240 AC |
| 0.2 W | 0.2 W | 0.2 W | 0.2 W | 1.0 W | 0.5 W |
| (0.8 to 1.1) U _N AC (50/60 Hz) | (0.8 to 1.1) U _N AC (50/60 Hz) | (0.8 to 1.1) U _N AC (50/60 Hz) | (0.8 to 1.1) U _N AC (50/60 Hz) | (0.8 to 1.1) U _N AC (50/60 Hz) | (0.8 to 1.1) U _N AC (50/60 Hz) |
| (0.8 to 1.2) U _N DC | (0.8 to 1.2) U _N DC | (0.8 to 1.2) U _N DC | (0.8 to 1.2) U _N DC | (0.8 to 1.2) U _N DC | (0.8 to 1.2) U _N DC |
| 0.6 U _N AC/0.6 U _N DC | 0.6 U _N AC/0.6 U _N DC | 0.6 U _N AC/0.6 U _N DC | 0.6 U _N AC/0.6 U _N DC | 0.6 U _N AC/0.6 U _N DC | 0.6 U _N AC/- U _N DC |
| 0.1 U _N AC/0.05 U _N DC | 0.1 U _N AC/0.05 U _N DC | 0.1 U _N AC/0.05 U _N DC | 0.1 U _N AC/0.05 U _N DC | 0.1 U _N AC/0.05 U _N DC | 0.1 U _N AC/- U _N DC |

ZPRC 48-60V AC/DC ZPRC 48-60V AC/DC ZPRC 110...125V AC/DC ZPRC 220...240V AC/DC ZPRC LW 110...125 V AC/DC ZPRC LW 220...240V A

| | | | | | |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 15498.2/10 | 15498.2/10 | 15499.2/10 | 15493.2/10 | 15556.2/10 | 15495.2/10 |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|

PRC 1/48V DC PRC 1/60V DC PRC 1/60V DC PRC 1/60V DC PRC 1/60V DC PRC 1/60V DC

| | | | | | |
|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 15547.2/10*3 | 15503.2/10*3 | 15503.2/10*3 | 15503.2/10*3 | 15503.2/10*3 | 15503.2/10*3 |
|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|

AQI/PRC/20 AQI/PRC/20 AQI/PRC/20 AQI/PRC/20 AQI/PRC/20 AQI/PRC/20

| | | | | | |
|------------------|------------------|------------------|------------------|------------------|------------------|
| 15545.8/1 | 15545.8/1 | 15545.8/1 | 15545.8/1 | 15545.8/1 | 15545.8/1 |
| 15545.5/1 | 15545.5/1 | 15545.5/1 | 15545.5/1 | 15545.5/1 | 15545.5/1 |
| 15545.4/1 | 15545.4/1 | 15545.4/1 | 15545.4/1 | 15545.4/1 | 15545.4/1 |

TW/PRC TW/PRC TW/PRC TW/PRC TW/PRC TW/PRC

| | | | | | |
|------------------|------------------|------------------|------------------|------------------|------------------|
| 15546.2/1 | 15546.2/1 | 15546.2/1 | 15546.2/1 | 15546.2/1 | 15546.2/1 |
|------------------|------------------|------------------|------------------|------------------|------------------|

PMC BSTR 6/30 PMC BSTR 6/30 PMC BSTR 6/30 PMC BSTR 6/30 PMC BSTR 6/30 PMC BSTR 6/30

| | | | | | |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| p. 157 | p. 157 | p. 157 | p. 157 | p. 157 | p. 157 |
| 9106.7/300 | 9106.7/300 | 9106.7/300 | 9106.7/300 | 9106.7/300 | 9106.7/300 |
| 9107.7/300 | 9107.7/300 | 9107.7/300 | 9107.7/300 | 9107.7/300 | 9107.7/300 |

BWMA 1 BWMA 1 BWMA 1 BWMA 1 BWMA 1 BWMA 1

| | | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 3808.0/1 | 3808.0/1 | 3808.0/1 | 3808.0/1 | 3808.0/1 | 3808.0/1 |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|

Compact plug relays PRC

Screw-connection relay terminals

- Consisting of: basic terminal and pluggable relay.
- Mount on TS 35

PRCU 1/6V DC



PRCU 1/12V DC



PRCU 1/24V DC



PRCU 1/12V AC/DC

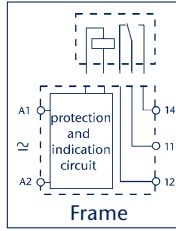
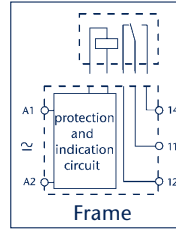
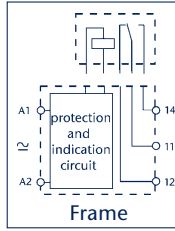
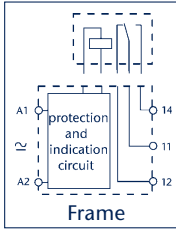
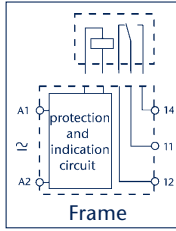


PRCU 1/24V AC/DC



Connection diagram

- Internal EMC coil circuitry and LED display
- LW versions: an internal AC residual-current suppression and LED display



| Type | PRCU 1/6 V DC | PRCU 1/12 V DC | PRCU 1/24 V DC | PRCU 1/12 V AC/DC | PRCU 1/24 V AC/DC |
|--|---|---|---|---|---|
| Cat. no./Qty. p.pck. Type/Colour grey (RAL 7032) | 15513.2/10 | 15514.2/10 | 15515.2/10 | 15569.2/10 | 15508.2/10 |
| Size (L x W x H) with TS 35 x 7.5 | 87.3 x 6.2 x 79.9 mm | 87.3 x 6.2 x 79.9 mm | 87.3 x 6.2 x 79.9 mm | 87.3 x 6.2 x 79.9 mm | 87.3 x 6.2 x 79.9 mm |
| Weight | 36 g | 36 g | 36 g | 36 g | 36 g |
| Rated operating voltage | 6 V DC | 12 V DC | 24 V DC | 2 V AC/DC | 24 V AC/DC |
| General information | | | | | |
| Mech. life span AC/DC switching cycles | -/10 x 10 ⁶ | -/10 x 10 ⁶ | -/10 x 10 ⁶ | 10 x 10 ⁶ /10 x 10 ⁶ | 10 x 10 ⁶ /10 x 10 ⁶ |
| Electrical life span AC 1 switching cycles | 60 x 10 ³ | 60 x 10 ³ | 60 x 10 ³ | 60 x 10 ³ | 60 x 10 ³ |
| Response time/release time | 5/6 ms | 5/6 ms | 5/6 ms | 5/6 ms | 5/6 ms |
| Insulation coordination, EN 61810-5 | 4 kV/3 | 4 kV/3 | 4 kV/3 | 4 kV/3 | 4 kV/3 |
| Dielectric strength coil/contacts (1.2/50 μs) | 6 kV | 6 kV | 6 kV | 6 kV | 6 kV |
| Dielectric strength of open contacts | 1,000 V AC | 1,000 V AC | 1,000 V AC | 1,000 V AC | 1,000 V AC |
| Ambient temperature | -40 to +70°C | -40 to +70°C | -40 to +70°C | -40 to +70°C | -40 to +70°C |
| Relay protection type | RT II | RT II | RT II | RT II | RT II |
| Ratings for socket base | | | | | |
| Ambient temperature | -40 to +70°C | -40 to +70°C | -40 to +70°C | -40 to +70°C | -40 to +70°C |
| Insulation stripping length | 10 mm | 10 mm | 10 mm | 10 mm | 10 mm |
| Max. connection cross-section, solid flexible | 1x2.5 1x2.5 mm ² 1x14 1x14 AWG | 1x2.5 1x2.5 mm ² 1x14 1x14 AWG | 1x2.5 1x2.5 mm ² 1x14 1x14 AWG | 1x2.5 1x2.5 mm ² 1x14 1x14 AWG | 1x2.5 1x2.5 mm ² 1x14 1x14 AWG |
| Ratings for plug-relays combined with socket base | | | | | |
| Contacts | | | | | |
| Number of contacts | 1 CO contact | 1 CO contact | 1 CO contact | 1 CO contact | 1 CO contact |
| Max. continuous current Max. inrush current | 6/10 A | 6/10 A | 6/10 A | 6/10 A | 6/10 A |
| Rated voltage Max. switching voltage | 250/400 VAC* | 250/400 VAC* | 250/400 VAC* | 250/400 VAC* | 250/400 VAC* |
| Max. power rating AC 1 | 1,500 VA | 1,500 VA | 1,500 VA | 1,500 VA | 1,500 VA |
| Max. power rating AC 15 (230 V AC) | 300 VA | 300 VA | 300 VA | 300 VA | 300 VA |
| 1-phase motor load, AC 3 operation (230 V AC) | 0.185 kw | 0.185 kw | 0.185 kw | 0.185 kw | 0.185 kw |
| Max. switching current DC 1:30/110/220 V | 6/0.2/0.12 A | 6/0.2/0.12 A | 6/0.2/0.12 A | 6/0.2/0.12 A | 6/0.2/0.12 A |
| Min. switching load | 300 (5/5) mW (V/mA) | 300 (5/5) mW (V/mA) | 300 (5/5) mW (V/mA) | 300 (5/5) mW (V/mA) | 300 (5/5) mW (V/mA) |
| Standard contact material | AgNi | AgNi | AgNi | AgNi | AgNi |
| Coil | | | | | |
| Rated voltage (U _N) | 5 V DC - AC | 12 V DC - AC | 24 V DC - AC | 12 V DC 12 AC | 24 V DC 24 AC |
| Power rating AC/DC | 0.2 W | 0.2 W | 0.2 W | 0.2 W | 0.2 W |
| Operating range | - AC (50/60 Hz) (0.8 to 1.2) U _N DC | - AC (50/60 Hz) (0.8 to 1.2) U _N DC | - AC (50/60 Hz) (0.8 to 1.2) U _N DC | (0.8 to 1.1) U _N AC (50/60 Hz) (0.8 to 1.2) U _N DC | (0.8 to 1.1) U _N AC (50/60 Hz) (0.8 to 1.2) U _N DC |
| Holding current | -AC/0.6 U _N DC | -AC/0.6 U _N DC | -AC/0.6 U _N DC | 0.6 U _N AC/0.6 U _N DC | 0.6 U _N AC/0.6 U _N DC |
| Drop-out voltage | -AC/0.05 U _N DC | -AC/0.05 U _N DC | -AC/0.05 U _N DC | 0.1 U _N AC/0.05 U _N DC | 0.1 U _N AC/0.05 U _N DC |

Individual components, socket base

| Type/Colour grey (RAL 7032) | PRC 6-12-24V DC | PRC 6-12-24V DC | PRC 6-12-24V DC | PRC 6-12-24V AC/DC | PRC 6-12-24V AC/DC |
|-----------------------------|-------------------|-------------------|-------------------|--------------------|--------------------|
| Cat. no./Qty. p.pck. | 15490.2/10 | 15490.2/10 | 15490.2/10 | 15488.2/10 | 15488.2/10 |

Individual components, plug relays

| Type/Rated voltage | PRC 1/5V DC | PRC 1/12V DC | PRC 1/24V DC | PRC 1/12V DC | PRC 1/24V DC |
|-----------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Cat. no./Qty. p.pck. | 15500.2/10*3 | 15501.2/10*3 | 15502.2/10*3 | 15501.2/10*3 | 15502.2/10*3 |

| Accessories AQI/PRC external insulated cross-connector | AQI/PRC/20 | AQI/PRC/20 | AQI/PRC/20 | AQI/PRC/20 | AQI/PRC/20 |
|--|------------------|------------------|------------------|------------------|------------------|
| Cat. no./Qty. p.pck. yellow | 15545.8/1 | 15545.8/1 | 15545.8/1 | 15545.8/1 | 15545.8/1 |
| Cat. no./Qty. p.pck. blue | 15545.5/1 | 15545.5/1 | 15545.5/1 | 15545.5/1 | 15545.5/1 |
| Cat. no./Qty. p.pck. black | 15545.4/1 | 15545.4/1 | 15545.4/1 | 15545.4/1 | 15545.4/1 |

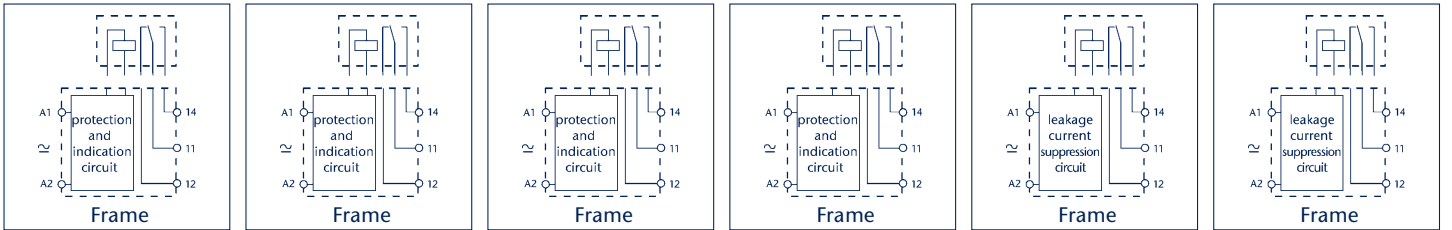
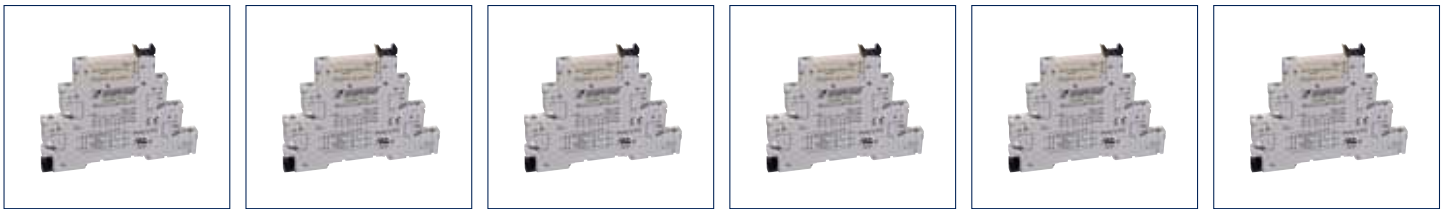
| TW/PRC partitions | TW/PRC | TW/PRC | TW/PRC | TW/PRC | TW/PRC |
|-----------------------------|------------------|------------------|------------------|------------------|------------------|
| Cat. no./Qty. p.pck. | 15546.2/1 | 15546.2/1 | 15546.2/1 | 15546.2/1 | 15546.2/1 |

| PMC labelling/markers | PMC BSTR 6/30 | PMC BSTR 6/30 | PMC BSTR 6/30 | PMC BSTR 6/30 | PMC BSTR 6/30 |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|
| Cat. no./Qty. p.pck., standard print, see catalog | p. 157 | p. 157 | p. 157 | p. 157 | p. 157 |
| Cat. no./Qty. p.pck. neutral | 9106.7/300 | 9106.7/300 | 9106.7/300 | 9106.7/300 | 9106.7/300 |
| Cat. no./Qty. p.pck., special print | 9107.7/300 | 9107.7/300 | 9107.7/300 | 9107.7/300 | 9107.7/300 |

| SDB screwdriver | SDB 0.6 x 3.5 | SDB 0.6 x 3.5 | SDB 0.6 x 3.5 | SDB 0.6 x 3.5 | SDB 0.6 x 3.5 |
|-----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Cat. no./Qty. p.pck. | 1086.0/1 | 1086.0/1 | 1086.0/1 | 1086.0/1 | 1086.0/1 |

* The conditions of pollution degree 2 are fulfilled at 400 V.
 *1 In order for the relay to de-energise, the residual current can be suppressed/controlled via the SPS-230 V semiconductor outputs, long control lines (LW), thyristors, and inductive proximity switch!
 *2 Since this relay is only produced for DC at a max. 60 V, the adjustment to the operating voltage occurs via the internal resistance and bridge rectifiers!
 *3 Relay available with gold contact, upon request!

PRCU 1/48V AC/DC PRCU 1/60V AC/DC PRCU 1/125V AC/DC PRCU 1/240V AC/DC PRCU LW 1/125V AC/DC PRCU LW 1/240V AC



| PRCU 1/48 V AC/DC 15509.2/10 | PRCU 1/60 V AC/DC 15510.2/10 | PRCU 1/125 V AC/DC 15511.2/10*2 | PRCU 1/240 V AC/DC 15512.2/10*2 | PRCU LW 1/125 V AC/DC 15553.2/10*2 | PRCU LW 1/240 V AC 15554.2/10*2 |
|--|--|--|--|---|--|
| 87.3 x 6.2 x 79.9 mm | 87.3 x 6.2 x 79.9 mm | 87.3 x 6.2 x 79.9 mm | 87.3 x 6.2 x 79.9 mm | 87.3 x 6.2 x 79.9 mm | 87.3 x 6.2 x 79.9 mm |
| 36 g | 36 g | 36 g | 36 g | 36 g | 36 g |
| 48 V AC/DC | 60 V AC/DC | 125 V AC/DC | 230 V AC/DC | 125 V AC/DC | 230 V AC/ |
| 10 x 10 ⁶ /10 x 10 ⁶ | 10 x 10 ⁶ /10 x 10 ⁶ | 10 x 10 ⁶ /10 x 10 ⁶ | 10 x 10 ⁶ /10 x 10 ⁶ | 10 x 10 ⁶ /10 x 10 ⁶ | 10 x 10 ⁶ /10 x 10 ⁶ |
| 60 x 10 ³ | 60 x 10 ³ | 60 x 10 ³ | 60 x 10 ³ | 60 x 10 ³ | 60 x 10 ³ |
| 5/6 ms | 5/6 ms | 5/6 ms | 5/6 ms | 5/6 ms | 5/6 ms |
| 4 kV/3 | 4 kV/3 | 4 kV/3 | 4 kV/3 | 4 kV/3 | 4 kV/3 |
| 6 kV | 6 kV | 6 kV | 6 kV | 6 kV | 6 kV |
| 1,000 V AC | 1,000 V AC | 1,000 V AC | 1,000 V AC | 1,000 V AC | 1,000 V AC |
| -40 to +70°C | -40 to +70°C | -40 to +70°C | -40 to +70°C | -40 to +70°C | -40 to +70°C |
| RT II | RT II | RT II | RT II | RT II | RT II |
| -40 to +70°C | -40 to +70°C | -40 to +70°C | -40 to +70°C | -40 to +70°C | -40 to +70°C |
| 10 mm | 10 mm | 10 mm | 10 mm | 10 mm | 10 mm |
| 1x2.5 1x2.5 mm ² | 1x2.5 1x2.5 mm ² | 1x2.5 1x2.5 mm ² | 1x2.5 1x2.5 mm ² | 1x2.5 1x2.5 mm ² | 1x2.5 1x2.5 mm ² |
| 1x14 1x14 AWG | 1x14 1x14 AWG | 1x14 1x14 AWG | 1x14 1x14 AWG | 1x14 1x14 AWG | 1x14 1x14 AWG |
| 1 CO contact | 1 CO contact | 1 CO contact | 1 CO contact | 1 CO contact | 1 CO contact |
| 6/10 A | 6/10 A | 6/10 A | 6/10 A | 6/10 A | 6/10 A |
| 250/400 VAC* | 250/400 VAC* | 250/400 VAC* | 250/400 VAC* | 250/400 VAC* | 250/400 VAC* |
| 1,500 VA | 1,500 VA | 1,500 VA | 1,500 VA | 1,500 VA | 1,500 VA |
| 300 VA | 300 VA | 300 VA | 300 VA | 300 VA | 300 VA |
| 0.185 kw | 0.185 kw | 0.185 kw | 0.185 kw | 0.185 kw | 0.185 kw |
| 6/0.2/0.12 A | 6/0.2/0.12 A | 6/0.2/0.12 A | 6/0.2/0.12 A | 6/0.2/0.12 A | 6/0.2/0.12 A |
| 300 (5/5) mW (V/mA) | 300 (5/5) mW (V/mA) | 300 (5/5) mW (V/mA) | 300 (5/5) mW (V/mA) | 300 (5/5) mW (V/mA) | 300 (5/5) mW (V/mA) |
| AgNi | AgNi | AgNi | AgNi | AgNi | AgNi |
| 48 V DC 48 AC | 60 V DC 60 AC | 110 to 125 V DC 110 to 125 AC | 220 to 240 V DC 220 to 240 AC | 110 to 125 V DC 110 to 125 AC | - V DC 220 to 240 AC |
| 0.2 W | 0.2 W | 0.2 W | 0.2 W | 1.0 W | 0.5 W |
| (0.8 to 1.1) U _N AC (50/60 Hz) | (0.8 to 1.1) U _N AC (50/60 Hz) | (0.8 to 1.1) U _N AC (50/60 Hz) | (0.8 to 1.1) U _N AC (50/60 Hz) | (0.8 to 1.1) U _N AC (50/60 Hz) | (0.8 to 1.1) U _N AC (50/60 Hz) |
| (0.8 to 1.2) U _N DC | (0.8 to 1.2) U _N DC | (0.8 to 1.2) U _N DC | (0.8 to 1.2) U _N DC | (0.8 to 1.2) U _N DC | (0.8 to 1.2) U _N DC |
| 0.6 U _N AC/0.6 U _N DC | 0.6 U _N AC/0.6 U _N DC | 0.6 U _N AC/0.6 U _N DC | 0.6 U _N AC/0.6 U _N DC | 0.6 U _N AC/0.6 U _N DC | 0.6 U _N AC/- U _N DC |
| 0.1 U _N AC/0.05 U _N DC | 0.1 U _N AC/0.05 U _N DC | 0.1 U _N AC/0.05 U _N DC | 0.1 U _N AC/0.05 U _N DC | 0.1 U _N AC/0.05 U _N DC | 0.1 U _N AC/- U _N DC |

PRC 48-60V AC/DC PRC 48-60V AC/DC PRC 110... 125V AC/DC PRC 220... 240V AC/DC PRC LW 110... 125V AC/DC PRC LW 220... 240V AC

| | | | | | |
|--|--|---|---|--|---|
| PRC 48-60V AC/DC 15496.2/10 | PRC 48-60V AC/DC 15496.2/10 | PRC 110... 125V AC/DC 15497.2/10 | PRC 220... 240V AC/DC 15489.2/10 | PRC LW 110... 125V AC/DC 15555.2/10 | PRC LW 220... 240V AC 15491.2/10 |
|--|--|---|---|--|---|

| PRC 1/48V DC 15547.2/10*3 | PRC 1/60V DC 15503.2/10*3 | PRC 1/60V DC 15503.2/10*3 | PRC 1/60V DC 15503.2/10*3 | PRC 1/60V DC 15503.2/10*3 | PRC 1/60V DC 15503.2/10*3 |
|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| AQI/PRC/20 | AQI/PRC/20 | AQI/PRC/20 | AQI/PRC/20 | AQI/PRC/20 | AQI/PRC/20 |
| 15545.8/1 | 15545.8/1 | 15545.8/1 | 15545.8/1 | 15545.8/1 | 15545.8/1 |
| 15545.5/1 | 15545.5/1 | 15545.5/1 | 15545.5/1 | 15545.5/1 | 15545.5/1 |
| 15545.4/1 | 15545.4/1 | 15545.4/1 | 15545.4/1 | 15545.4/1 | 15545.4/1 |

| TW/PRC | TW/PRC | TW/PRC | TW/PRC | TW/PRC | TW/PRC |
|---------------|---------------|---------------|---------------|---------------|---------------|
| 15546.2/1 | 15546.2/1 | 15546.2/1 | 15546.2/1 | 15546.2/1 | 15546.2/1 |

| PMC BSTR 6/30 | PMC BSTR 6/30 | PMC BSTR 6/30 | PMC BSTR 6/30 | PMC BSTR 6/30 | PMC BSTR 6/30 |
|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| p. 157 | p. 157 | p. 157 | p. 157 | p. 157 | p. 157 |
| 9106.7/300 | 9106.7/300 | 9106.7/300 | 9106.7/300 | 9106.7/300 | 9106.7/300 |
| 9107.7/300 | 9107.7/300 | 9107.7/300 | 9107.7/300 | 9107.7/300 | 9107.7/300 |

| SDB 0.6 x 3.5 | SDB 0.6 x 3.5 | SDB 0.6 x 3.5 | SDB 0.6 x 3.5 | SDB 0.6 x 3.5 | SDB 0.6 x 3.5 |
|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 1086.0/1 | 1086.0/1 | 1086.0/1 | 1086.0/1 | 1086.0/1 | 1086.0/1 |

Plug relay system PRS

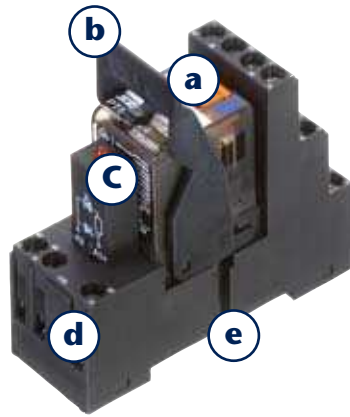
Screw-clamp connection

1. Overview

a Pluggable relays
Pluggable relays are also available with AgSNO and gold contacts, to fit with the many functions of your individual requirements!



e Mounts on standard TS 35 rail
CONTA-CLIP relay bases can be flexibly mounted on standard TS 35 mounting rails according to EN 50035 and EN 50022.



b Using the mount/dismount lever
The mounting and dismounting mechanism forms a reliable connection by latching the relay with the socket base. The fitted relay can be removed, easily and without force, from the socket base by using the dismount function of the lever!



AQI/PRS external cross-connector

d The AQI/PRS external cross-connection system enables a time-saving distribution of potentials. With this system, you can save time when coupling multiple relay components.

c Pluggable LED and protective modules
Pluggable modules allow easy insertion into the base module, with reverse-connect protection. Their circuitry is effective in parallel to the coil of the deployed relay.



2. Features

1. Relay

- **PLUG RELAY SYSTEM** (relays with 1, 2, or 4 COs)
- Load-independent switching
- Direct control via the SPS outputs
- High interference immunity
- Electrical isolation of control and load circuits
- Minimal contact resistance, and high insulation resistance
- PRS 4 relay features switch/button for HAND/AUTOMATIC switching
- PRS 4 eco relay features switch/button for HAND/AUTOMATIC switching, and an integrated LED for signaling the switching status

Technical data for the available relays can be found on the following product pages.

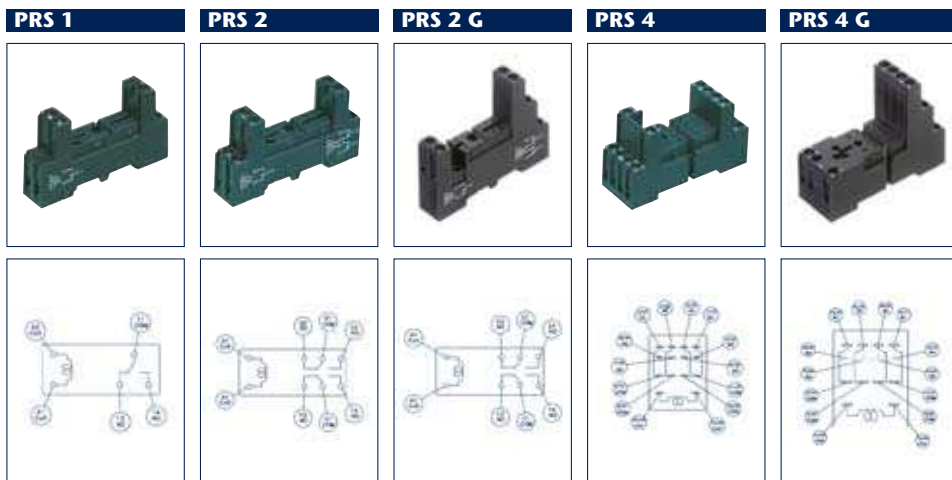


Plug relay system PRS

Screw-clamp connection

II. Socket base

- Mount on TS 35
- Very flexible and modular construction of individual relay bases
- User-friendly, because the relays can be easily replaced
- High-quality connection terminals
- Wire strands protected against false insertion
- Terminal screws retention prevents loss
- Pluggable LED display with additional protective circuitry
- Holding clamp made of high-quality plastic



| Type | PRS 1 | PRS 2 | PRS 2 G | PRS 4 | PRS 4 G |
|--|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Cat. no./Qty. p.pck. | 15135.2/1 | 15136.2/1 | 15320.2/1 | 15137.2/1 | 15324.2/1 |
| Size (L x W x H) with TS 35 | 76 x 15.7 x 46 mm | 76 x 15.7 x 46 mm | 76 x 15.7 x 65 mm | 76 x 27.1 x 47 mm | 76 x 27.1 x 66 mm |
| Size with holding clamp (L x W x H) with TS 35 | 76 x 15.7 x 71 mm | 76 x 15.7 x 71 mm | 76 x 15.7 x 71 mm | 76 x 27.1 x 85 mm | 76 x 27.1 x 87 mm |
| Weight | 33 g | 38 g | 43 g | 63 g | 65 g |
| General | | | | | |
| Mounting foot for DIN rails | TS 35 | TS 35 | TS 35 | TS 35 | TS 35 |
| Plug-in modules for | 3.5mm pinning | 5mm pinning | 5mm pinning | 2.8mm fast-on | 2.8mm fast-on |
| Connection type | Screw connection | Screw connection | Screw connection | Screw connection | Screw connection |
| Technical data | | | | | |
| Rated current | 12 A | 10 A | 10 A | 10 A | 10 A |
| Rated voltage | 300 V | 300 V | 300 V | 300 V | 300 V |
| Dielectric strength coil/contact | 4000 Veff | 4000 Veff | 4000 Veff | 2400 Veff | 2400 Veff |
| Insulation group (VDE 0110 b) | C/250 V | C/250 V | C/250 V | C/250 V | C/250 V |
| Ambient temperature | -25 to +80°C | -25 to +80°C | -25 to +80°C | -25 to +80°C | -25 to +80°C |
| Protection degree, enclosure | IP 20 | IP 20 | IP 20 | IP 20 | IP 20 |
| Flammability class UL 94 | V-0 | V-0 | V-0 | V-0 | V-0 |
| Touch protection, acc. to | VBG 4 | VBG 4 | VBG 4 | VBG 4 | VBG 4 |
| Connection cross-section | 2 x 2.5 mm ² | 2 x 2.5 mm ² | 2 x 2.5 mm ² | 2 x 2.5 mm ² | 2 x 2.5 mm ² |
| With ferrules | 2 x 1.5 mm ² | 2 x 1.5 mm ² | 2 x 1.5 mm ² | 2 x 1.5 mm ² | 2 x 1.5 mm ² |
| Screw torque | max. 0.8 Nm | max. 0.8 Nm | max. 0.8 Nm | max. 0.8 Nm | max. 0.8 Nm |
| Approvals | UL/CSA | UL/CSA | UL/CSA | UL/CSA | UL/CSA |

III. Insert modules

- Plugs simply into the base module; reverse-connect protection
- Circuitry parallel to coil

| Cat. no./Qty. p.pck. | Type | Voltage range | |
|----------------------|------------------|------------------|--------------------------------------|
| 15141.2/1 | PRS LED 24 V DC | 12 to 24 V DC | Status display with free-wheel diode |
| 15175.2/1 | PRS LED 24 V UC | 12 to 48 V AC/DC | Status display |
| 15422.2/1 | PRS LED 110 V DC | 60 to 110 V DC | Status display with free-wheel diode |
| 15142.2/1 | PRS LED 230 V AC | 110 to 230 V AC | Status display |



IV. Holding clamp

The mount/dismount clamp forms a reliable connection by latching the relay with the socket base. The fitted relay can be removed, easily and without force, from the socket base by using the dismount function of the lever.

| Cat. no./Qty. p.pck. | Type | Weight |
|----------------------|---------------|--------|
| 15138.2/1 | PRS C 1 / C 2 | 2 g |
| 15140.2/1 | PRS C 4 | 4 g |
| 15628.2/1 | PRS C 4 eco | 4 g |



V. Contact bridge

- A simple and quick bridge to multiple relay blocks

| Cat. no./Qty. p.pck. | Type | Weight |
|----------------------|-----------|--|
| 15778.2/1 | AQI PRS/5 | A contact bridge, for bridging five PRS 4 4 CO frames |
| 15779.2/1 | AQI PRS/8 | A contact bridge for bridging up to 8 PRS 1 or PRS 2 1 and 2 CO frames |



Relay with 1 CO PRS 1

| Complete screw-connection components | PRSU 1/12 V DC | PRSU 1/24 V DC | PRSU 1/60 V DC | PRSU 1/110 V DC |
|--------------------------------------|-----------------------|-----------------------|-----------------------|------------------------|
| consisting of: | | | | |
| · Relay | | | | |
| · Insert module | | | | |
| · Socket base | | | | |
| · Holding clamp | | | | |
| Type | PRSU 1/12 V DC | PRSU 1/24 V DC | PRSU 1/60 V DC | PRSU 1/110 V DC |
| Cat. no./Qty. p.pck. | 15163.2/1 | 15169.2/1 | 15720.2/1 | 15721.2/1 |
| Size (L x W x H) with TS 35 x 7.5 | 76 x 15.7 x 71 mm | 76 x 15.7 x 71 mm | 76 x 15.7 x 71 mm | 76 x 15.7 x 71 mm |
| Weight | 55 g | 55 g | 55 g | 55 g |

Individual components

Relay 1 W, encapsulated design

| Type | PRS 1/12 V DC | PRS 1/24 V DC | PRS 1/60 V DC | PRS 1/110 V DC |
|--|--|------------------------|------------------------|------------------------|
| Cat. no./Qty. p.pck. | 6996.0/1 | 6804.0/1 | 15539.2/1 | 15540.2/1 |
| Weight | 15 g | 15 g | 15 g | 15 g |
| General information | Insulation IEC 664/VDE 0110, rated voltage 250 V, pollution degree 3, overvoltage category III, flammability class UL 94 V-0 | | | |
| DIN-VDE specifications | Insulation IEC 664/VDE 0110, rated voltage 250 V, pollution degree 3, overvoltage category III, flammability class UL 94 V-0 | | | |
| Test voltage coil/contact | 5 kV | 5 kV | 5 kV | 5 kV |
| Pinning | 3.5mm | 3.5mm | 3.5mm | 3.5mm |
| Operating temperature | -40 to +85°C | -40 to +85°C | -40 to +85°C | -40 to +85°C |
| Important Notes | - | - | - | - |
| Input data | | | | |
| Input voltage | 12 V DC | 24 V DC | 60 V DC | 110 V DC |
| Rated power consumption | 0.40 W | 0.40 W | 0.42 W | 0.42 W |
| Output data | | | | |
| Contacts | 1 CO contact | 1 CO contact | 1 CO contact | 1 CO contact |
| Switching voltage/Max. switching voltage | 250 V AC/440 V AC | 250 V AC/440 V AC | 250 V AC/440 V AC | 250 V AC/440 V AC |
| Max continuous current/inrush current | 12 A/25 A | 12 A/25 A | 12 A/25 A | 12 A/25 A |
| Typical response time/release time | 7 ms/3 ms | 7 ms/3 ms | 7 ms/3 ms | 7 ms/3 ms |
| Contact material | AgNi 90/10 | AgNi 90/10 | AgNi 90/10 | AgNi 90/10 |
| Electrical service life | 1.2 x 10 ³ | 1.2 x 10 ³ | 1.2 x 10 ³ | 1.2 x 10 ³ |
| at contact load | 4 A, 250 V AC | 4 A, 250 V AC | 4 A, 250 V AC | 4 A, 250 V AC |
| Mechanical life span | > 30 x 10 ⁶ | > 30 x 10 ⁶ | > 30 x 10 ⁶ | > 30 x 10 ⁶ |

Insert module

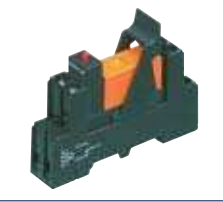

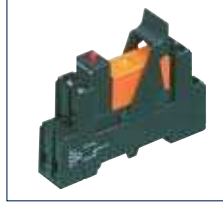

| Type | PRS LED 24 V DC | PRS LED 24 V DC | PRS LED 110 V DC | PRS LED 110 V DC |
|---|---|---|--|--|
| Cat. no./Qty. p.pck. | 15141.2/1 | 15141.2/1 | 15422.2/1 | 15422.2/1 |
| protected against polarity reversal in parallel to coil | Status display with free-wheel diode 12 to 24 V DC | Status display with free-wheel diode 12 to 24 V DC | Status display with free-wheel diode 60 to 110 V DC | Status display with free-wheel diode 60 to 110 V DC |

Socket base

| Type | PRS 1 | PRS 1 | PRS 1 | PRS 1 |
|-------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Cat. no./Qty. p.pck. | 15135.2/1 | 15135.2/1 | 15135.2/1 | 15135.2/1 |
| General | | | | |
| Mounting foot for DIN rails | TS 35 | TS 35 | TS 35 | TS 35 |
| Plug-in modules for | 3.5 mm pinning | 3.5 mm pinning | 3.5 mm pinning | 3.5 mm pinning |
| Connection type | Screw connection | Screw connection | Screw connection | Screw connection |
| Technical data | | | | |
| Rated current | 12 A | 12 A | 12 A | 12 A |
| Rated voltage | 300 V | 300 V | 300 V | 300 V |
| Dielectric strength | 4000 Veff | 4000 Veff | 4000 Veff | 4000 Veff |
| Insulation group (VDE 0110 b) | C/250 V | C/250 V | C/250 V | C/250 V |
| Ambient temperature | -25 to +80°C | -25 to +80°C | -25 to +80°C | -25 to +80°C |
| Protection degree, enclosure | IP 20 | IP 20 | IP 20 | IP 20 |
| Flammability class UL 94 | V-0 | V-0 | V-0 | V-0 |
| Touch protection, acc. to | VBG 4 | VBG 4 | VBG 4 | VBG 4 |
| Connection cross-section | 2 x 2.5 mm ² | 2 x 2.5 mm ² | 2 x 2.5 mm ² | 2 x 2.5 mm ² |
| With ferrules | 2 x 1.5 mm ² | 2 x 1.5 mm ² | 2 x 1.5 mm ² | 2 x 1.5 mm ² |
| Screw torque | max. 0.8 Nm | max. 0.8 Nm | max. 0.8 Nm | max. 0.8 Nm |
| Approvals | UL/CSA | UL/CSA | UL/CSA | UL/CSA |

Holding clamp

| Type | PRS C 1/2 | PRS C 1/2 | PRS C 1/2 | PRS C 1/2 |
|-----------------------------|------------------|------------------|------------------|------------------|
| Cat. no./Qty. p.pck. | 15138.2/1 | 15138.2/1 | 15138.2/1 | 15138.2/1 |

| PRSU 1 L/24 V DC | PRSU 1/24 V AC | PRSU 1/115 V AC | PRSU 1/230 V AC | | |
|--|---|---|--|--|--|
|  |  |  |  | | |
| PRSU 1 L/24 V DC 15419.2/1 | PRSU 1/24 V AC 15164.2/1 | PRSU 1/115 V AC 15418.2/1 | PRSU 1/230 V AC 15170.2/1 | | |
| 76 x 15.7 x 71 mm 60 g | 76 x 15.7 x 71 mm 55 g | 76 x 15.7 x 71 mm 55 g | 76 x 15.7 x 71 mm 55 g | | |

| PRS 1 L/24 V DC | PRS 1/24 V AC | PRS 1/115 V AC | PRS 1/230 V AC | | |
|-----------------|-----------------|------------------|-----------------|--|--|
| 6940.0/1 | 6480.2/1 | 15228.2/1 | 6481.2/1 | | |
| 15 g | 15 g | 15 g | 15 g | | |

Insulation IEC 664/VDE 0110, rated voltage 250 V, pollution degree 3, overvoltage category III, flammability class UL 94 V-0

| | | | | | |
|------------------------|------------------------|------------------------|------------------------|--|--|
| 4 kV | 5 kV | 5 kV | 5 kV | | |
| 5 mm | 3.5 mm | 3.5 mm | 3.5 mm | | |
| -20 to +50°C | -40 to +70°C | -40 to +70°C | -40 to +70°C | | |
| Inductive loads | - | - | - | | |
| 24 V DC | 24 V AC | 115 V AC | 230 V AC | | |
| 0.50 W | 0.75 VA | 0.75 VA | 0.75 VA | | |
| 1 CO contact | 1 CO contact | 1 CO contact | 1 CO contact | | |
| 250 V AC | 250 V AC/440 V AC | 250 V AC/440 V AC | 250 V AC/440 V AC | | |
| 16 A/80 A (20 ms) | 12 A/25 A | 12 A/25 A | 12 A/25 A | | |
| 10 ms/10 ms | 7 ms/3 ms | 7 ms/3 ms | 7 ms/3 ms | | |
| Ag Sn 02 | AgNi 90/10 | AgNi 90/10 | AgNi 90/10 | | |
| 1 x 10 ⁵ | 1.2 x 10 ³ | 1.2 x 10 ³ | 1.2 x 10 ³ | | |
| 16 A, 250 V AC | 4 A, 250 V AC | 4 A, 250 V AC | 4 A, 250 V AC | | |
| > 30 x 10 ⁶ | > 30 x 10 ⁶ | > 30 x 10 ⁶ | > 30 x 10 ⁶ | | |

| PRS LED 24 V DC | PRS LED 24 V UC | PRS LED 230 V AC | PRS LED 230 V AC | | |
|--------------------------------------|------------------|------------------|------------------|--|--|
| 15141.2/1 | 15175.2/1 | 15142.2/1 | 15142.2/1 | | |
| Status display with free-wheel diode | Status display | Status display | Status display | | |
| 12 to 24 V DC | 12 to 48 V AC/DC | 110 to 230 V/AC | 110 to 230 V/AC | | |

| PRS 2 | PRS 1 | PRS 1 | PRS 1 | | |
|-------------------------|-------------------------|-------------------------|-------------------------|--|--|
| 15136.2/1 | 15135.2/1 | 15135.2/1 | 15135.2/1 | | |
| TS 35 | TS 35 | TS 35 | TS 35 | | |
| 5mm pinning | 3.5mm pinning | 3.5mm pinning | 3.5mm pinning | | |
| Screw connection | Screw connection | Screw connection | Screw connection | | |
| 10 A | 12 A | 12 A | 12 A | | |
| 300 V | 300 V | 300 V | 300 V | | |
| 4000 Veff | 4000 Veff | 4000 Veff | 4000 Veff | | |
| C/250 V | C/250 V | C/250 V | C/250 V | | |
| -25 to +80°C | -25 to +80°C | -25 to +80°C | -25 to +80°C | | |
| IP 20 | IP 20 | IP 20 | IP 20 | | |
| V-0 | V-0 | V-0 | V-0 | | |
| VBG 4 | VBG 4 | VBG 4 | VBG 4 | | |
| 2 x 2.5 mm ² | 2 x 2.5 mm ² | 2 x 2.5 mm ² | 2 x 2.5 mm ² | | |
| 2 x 1.5 mm ² | 2 x 1.5 mm ² | 2 x 1.5 mm ² | 2 x 1.5 mm ² | | |
| max. 0.8 Nm | max. 0.8 Nm | max. 0.8 Nm | max. 0.8 Nm | | |
| UL/CSA | UL/CSA | UL/CSA | UL/CSA | | |

| PRS C 1/2 | PRS C 1/2 | PRS C 1/2 | PRS C 1/2 | | |
|------------------|------------------|------------------|------------------|--|--|
| 15138.2/1 | 15138.2/1 | 15138.2/1 | 15138.2/1 | | |

Relay with 2 CO PRS 2

| Complete screw-connection components | PRSU 2/12 V DC | PRSU 2/24 V DC | PRSU 2/48 V DC | PRSU 2/60 V DC |
|--------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| consisting of: | | | | |
| · Relay | | | | |
| · Insert module | | | | |
| · Socket base | | | | |
| · Holding clamp | | | | |
| Type | PRSU 2/12 V DC | PRSU 2/24 V DC | PRSU 2/48 V DC | PRSU 2/60 V DC |
| Cat. no./Qty. p.pck. | 15165.2/1 | 15171.2/1 | 15411.2/1 | 15412.2/1 |
| Size (L x W x H) with TS 35 x 7.5 | 76 x 15.7 x 71 mm | 76 x 15.7 x 71 mm | 76 x 15.7 x 71 mm | 76 x 15.7 x 71 mm |
| Weight | 60 g | 60 g | 60 g | 60 g |

Individual components

Relay 2 W, encapsulated design

| Type | PRS 2/12 V DC | PRS 2/24 V DC | PRS 2/48 V DC | PRS 2/60 V DC |
|--|--|------------------------|------------------------|------------------------|
| Cat. no./Qty. p.pck. | 6482.2/1 | 6483.2/1 | 15334.2/1 | 15335.2/1 |
| Weight | 15 g | 15 g | 15 g | 15 g |
| General information | Insulation IEC 664/VDE 0110, rated voltage 250 V, pollution degree 3, overvoltage category III, flammability class UL 94 V-0 | | | |
| DIN-VDE specifications | | | | |
| Test voltage coil/contact | 5 kV | 5 kV | 5 kV | 5 kV |
| Pinning | 5 mm | 5 mm | 5 mm | 5 mm |
| Operating temperature | -40 to +70°C | -40 to +70°C | -40 to +70°C | -40 to +70°C |
| Input data | | | | |
| Input voltage | 12 V DC | 24 V DC | 48 V DC | 60 V DC |
| Rated power consumption | 0.40 W | 0.40 W | 0.40 W | 0.40 W |
| Output data | | | | |
| Contacts | 2 CO contact | 2 CO contact | 2 CO contact | 2 CO contact |
| Switching voltage/Max. switching voltage | 250 V AC/440 V AC | 250 V AC/440 V AC | 250 V AC/440 V AC | 250 V AC/440 V AC |
| Max continuous current/inrush current | 8 A/15 A | 8 A/15 A | 12 A/25 A | 8 A/15 A |
| Typical response time/release time | 7 ms/2 ms | 7 ms/2 ms | 7 ms/2 ms | 7 ms/2 ms |
| Contact material | AgNi 90/10 | AgNi 90/10 | AgNi 90/10 | AgNi 90/10 |
| Electrical service life | 1.5 x 10 ⁵ | 1.5 x 10 ⁵ | 1.5 x 10 ⁵ | 1.5 x 10 ⁵ |
| at contact load | 4 A, 230 V AC | 4 A, 230 V AC | 4 A, 230 V AC | 4 A, 230 V AC |
| Mechanical life span | > 30 x 10 ⁶ | > 30 x 10 ⁶ | > 30 x 10 ⁶ | > 30 x 10 ⁶ |

Insert module

| Type | PRS LED 24 V DC | PRS LED 24 V DC | PRS LED 24 V UC | PRS LED 110 V DC |
|---|---|---|------------------------------------|--|
| Cat. no./Qty. p.pck. | 15141.2/1 | 15141.2/1 | 15175.2/1 | 15422.2/1 |
| protected against polarity reversal in parallel to coil | Status display with free-wheel diode 12 to 24 V DC | Status display with free-wheel diode 12 to 24 V DC | Status display 12 to 48 V AC/DC | Status display with free-wheel diode 60 to 110 V DC |

Socket base

| Type | PRS 2 | PRS 2 | PRS 2 | PRS 2 |
|-------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Cat. no./Qty. p.pck. | 15136.2/1 | 15136.2/1 | 15136.2/1 | 15136.2/1 |
| General | | | | |
| Mounting foot for DIN rails | TS 35 | TS 35 | TS 35 | TS 35 |
| Plug-in modules for | 5 mm pinning | 5 mm pinning | 5 mm pinning | 5 mm pinning |
| Connection type | Screw connection | Screw connection | Screw connection | Screw connection |
| Technical data | | | | |
| Rated current | 10 A | 10 A | 10 A | 10 A |
| Rated voltage | 300 V | 300 V | 300 V | 300 V |
| Dielectric strength | 4000 Veff | 4000 Veff | 4000 Veff | 4000 Veff |
| Insulation group (VDE 0110 b) | C/250 V | C/250 V | C/250 V | C/250 V |
| Ambient temperature | -25 to +80°C | -25 to +80°C | -25 to +80°C | -25 to +80°C |
| Protection degree, enclosure | IP 20 | IP 20 | IP 20 | IP 20 |
| Flammability class UL 94 | V-0 | V-0 | V-0 | V-0 |
| Touch protection, acc. to | VBG 4 | VBG 4 | VBG 4 | VBG 4 |
| Connection cross-section | 2 x 2.5 mm ² | 2 x 2.5 mm ² | 2 x 2.5 mm ² | 2 x 2.5 mm ² |
| With ferrules | 2 x 1.5 mm ² | 2 x 1.5 mm ² | 2 x 1.5 mm ² | 2 x 1.5 mm ² |
| Screw torque | max. 0.8 Nm | max. 0.8 Nm | max. 0.8 Nm | max. 0.8 Nm |
| Approvals | UL/CSA | UL/CSA | UL/CSA | UL/CSA |

Holding clamp

| Type | PRS C 1/2 | PRS C 1/2 | PRS C 1/2 | PRS C 1/2 |
|-----------------------------|------------------|------------------|------------------|------------------|
| Cat. no./Qty. p.pck. | 15138.2/1 | 15138.2/1 | 15138.2/1 | 15138.2/1 |

Relay with 2 CO PRS 2

| PRS 2/110 V DC | PRS 2/24 V AC | PRS 2/115 V AC | PRS 2/230 V AC | | |
|--|---|---|--|--|--|
|  |  |  |  | | |
| PRS 2/110 V DC 15722.2/1 | PRS 2/24 V AC 15166.2/1 | PRS 2/115 V AC 15413.2/1 | PRS 2/230 V AC 15172.2/1 | | |
| 76 x 15.7 x 71 mm 60 g | 76 x 15.7 x 71 mm 60 g | 76 x 15.7 x 71 mm 60 g | 76 x 15.7 x 71 mm 60 g | | |
| Insulation IEC 664/VDE 0110, rated voltage 250 V, pollution degree 3, overvoltage category III, flammability class UL 94 V-0 | | | | | |
| 5 kV | 5 kV | 5 kV | 5 kV | | |
| 5 mm | 5 mm | 5 mm | 5 mm | | |
| -40 to +70°C | -40 to +70°C | -40 to +70°C | -40 to +70°C | | |
| 110 V DC | 24 V AC | 115 V AC | 230 V AC | | |
| 0.40 W | 0.75 VA | 0.75 VA | 0.75 VA | | |
| 2 CO contact | 2 CO contact | 2 CO contact | 2 CO contact | | |
| 250 V AC/440 V AC | 250 V AC/440 V AC | 250 V AC/440 V AC | 250 V AC/440 V AC | | |
| 8 A/15 A | 8 A/15 A | 8 A/15 A | 8 A/15 A | | |
| 7 ms/2 ms | 7 ms/2 ms | 7 ms/2 ms | 7 ms/2 ms | | |
| AgNi 90/10 | AgNi 90/10 | AgNi 90/10 | AgNi 90/10 | | |
| 1.5 x 10 ⁵ | 1.5 x 10 ⁵ | 1.5 x 10 ⁵ | 1.5 x 10 ⁵ | | |
| 4 A, 230 V AC | 4 A, 230 V AC | 4 A, 230 V AC | 4 A, 230 V AC | | |
| > 30 x 10 ⁶ | > 5 x 10 ⁶ | > 5 x 10 ⁶ | > 5 x 10 ⁶ | | |
| Insulation IEC 664/VDE 0110, rated voltage 250 V, pollution degree 3, overvoltage category III, flammability class UL 94 V-0 | | | | | |
| PRS LED 110 V DC 15422.2 /1 | PRS LED 24 V UC 15175.2/1 | PRS LED 230 V AC 15142.2/1 | PRS LED 230 V AC 15142.2/1 | | |
| Status display with free-wheel diode 60 to 110 V DC | Status display 12 to 48 V AC/DC | Status display 110 to 230 V AC/DC | Status display 110 to 230 V AC/DC | | |
| Insulation IEC 664/VDE 0110, rated voltage 250 V, pollution degree 3, overvoltage category III, flammability class UL 94 V-0 | | | | | |
| PRS 2 15136.2/1 | PRS 2 15136.2/1 | PRS 2 15136.2/1 | PRS 2 15136.2/1 | | |
| TS 35 | TS 35 | TS 35 | TS 35 | | |
| 5 mm pinning | 5 mm pinning | 5 mm pinning | 5 mm pinning | | |
| Screw connection | Screw connection | Screw connection | Screw connection | | |
| 10 A | 10 A | 10 A | 10 A | | |
| 300 V | 300 V | 300 V | 300 V | | |
| 4000 Veff | 4000 Veff | 4000 Veff | 4000 Veff | | |
| C/250 V | C/250 V | C/250 V | C/250 V | | |
| -25 to +80°C | -25 to +80°C | -25 to +80°C | -25 to +80°C | | |
| IP 20 | IP 20 | IP 20 | IP 20 | | |
| V-0 | V-0 | V-0 | V-0 | | |
| VBG 4 | VBG 4 | VBG 4 | VBG 4 | | |
| 2 x 2.5 mm ² | 2 x 2.5 mm ² | 2 x 2.5 mm ² | 2 x 2.5 mm ² | | |
| 2 x 1.5 mm ² | 2 x 1.5 mm ² | 2 x 1.5 mm ² | 2 x 1.5 mm ² | | |
| max. 0.8 Nm | max. 0.8 Nm | max. 0.8 Nm | max. 0.8 Nm | | |
| UL/CSA | UL/CSA | UL/CSA | UL/CSA | | |
| Insulation IEC 664/VDE 0110, rated voltage 250 V, pollution degree 3, overvoltage category III, flammability class UL 94 V-0 | | | | | |
| PRS C 1/2 15138.2/1 | PRS C 1/2 15138.2/1 | PRS C 1/2 15138.2/1 | PRS C 1/2 15138.2/1 | | |

Relay 2 CO contact, PRS 2 G

| Complete screw-connection components | PRSU 2 G/12 V DC | PRSU 2 G/24 V DC | PRSU 2 G/48 V DC | PRSU 2 G/60 V DC |
|--------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| consisting of: | | | | |
| · Relay | | | | |
| · Insert module | | | | |
| · Socket base | | | | |
| · Holding clamp | | | | |
| Type | PRSU 2 G/12 V DC | PRSU 2 G/24 V DC | PRSU 2 G/48 V DC | PRSU 2 G/60 V DC |
| Cat. no./Qty. p.pck. | 15414.2/1 | 15233.2/1 | 15415.2/1 | 15416.2/1 |
| Size (L x W x H) with TS 35 | 76 x 15.7 x 71 mm | 76 x 15.7 x 71 mm | 76 x 15.7 x 71 mm | 76 x 15.7 x 71 mm |
| Weight | 60 g | 60 g | 60 g | 60 g |

Individual components

Relay 2 W, encapsulated design

| Type | PRS 2/12 V DC | PRS 2/24 V DC | PRS 2/48 V DC | PRS 2/60 V DC |
|--|--|------------------------|------------------------|------------------------|
| Cat. no./Qty. p.pck. | 6482.2/1 | 6483.2/1 | 15334.2/1 | 15335.2/1 |
| Weight | 15 g | 15 g | 15 g | 15 g |
| General information | Insulation IEC 664/VDE 0110, rated voltage 250 V, pollution degree 3, overvoltage category III, flammability class UL 94 V-0 | | | |
| DIN-VDE specifications | | | | |
| Test voltage coil/contact | 5 kV | 5 kV | 5 kV | 5 kV |
| Pinning | 5 mm | 5 mm | 5 mm | 5 mm |
| Operating temperature | -40 to +70°C | -40 to +70°C | -40 to +70°C | -40 to +70°C |
| Input data | | | | |
| Input voltage | 12 V DC | 24 V DC | 48 V DC | 60 V DC |
| Rated power consumption | 0.40 W | 0.40 W | 0.40 W | 0.40 W |
| Output data | | | | |
| Contacts | 2 CO contact | 2 CO contact | 2 CO contact | 2 CO contact |
| Switching voltage/Max. switching voltage | 250 V AC/440 V AC | 250 V AC/440 V AC | 250 V AC/440 V AC | 250 V AC/440 V AC |
| Max continuous current/inrush current | 8 A/15 A | 8 A/15 A | 8 A/15 A | 8 A/15 A |
| Typical response time/release time | 7 ms/2 ms | 7 ms/2 ms | 7 ms/2 ms | 7 ms/2 ms |
| Contact material | AgNi 90/10 | AgNi 90/10 | AgNi 90/10 | AgNi 90/10 |
| Electrical service life | 1.5 x 10 ⁵ | 1.5 x 10 ⁵ | 1.5 x 10 ⁵ | 1.5 x 10 ⁵ |
| at contact load | 4 A, 230 V AC | 4 A, 230 V AC | 4 A, 230 V AC | 4 A, 230 V AC |
| Mechanical life span | > 30 x 10 ⁶ | > 30 x 10 ⁶ | > 30 x 10 ⁶ | > 30 x 10 ⁶ |

Insert module

| Type | PRS LED 24 V DC | PRS LED 24 V DC | PRS LED 24 V UC | PRS LED 110 V DC |
|---|---|---|------------------------------------|--|
| Cat. no./Qty. p.pck. | 15141.2/1 | 15141.2/1 | 15175.2/1 | 15422.2/1 |
| protected against polarity reversal in parallel to coil | Status display with free-wheel diode 12 to 24 V DC | Status display with free-wheel diode 12 to 24 V DC | Status display 12 to 48 V AC/DC | Status display with free-wheel diode 60 to 110 V DC |

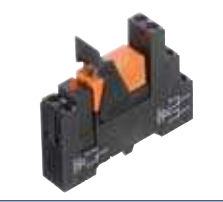



Socket base

| Type | PRS 2 G | PRS 2 G | PRS 2 G | PRS 2 G |
|-------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Cat. no./Qty. p.pck. | 15320.2/1 | 15320.2/1 | 15320.2/1 | 15320.2/1 |
| General | | | | |
| Mounting foot for DIN rails | TS 35 | TS 35 | TS 35 | TS 35 |
| Plug-in modules for | 5 mm pinning | 5 mm pinning | 5 mm pinning | 5 mm pinning |
| Connection type | Screw connection | Screw connection | Screw connection | Screw connection |
| Technical data | | | | |
| Rated current | 10 A | 10 A | 10 A | 10 A |
| Rated voltage | 300 V | 300 V | 300 V | 300 V |
| Dielectric strength | 4000 Veff | 4000 Veff | 4000 Veff | 4000 Veff |
| Insulation group (VDE 0110 b) | C/250 V | C/250 V | C/250 V | C/250 V |
| Ambient temperature | -25 to +80°C | -25 to +80°C | -25 to +80°C | -25 to +80°C |
| Protection degree, enclosure | IP 20 | IP 20 | IP 20 | IP 20 |
| Flammability class UL 94 | V-0 | V-0 | V-0 | V-0 |
| Touch protection, acc. to | VBG 4 | VBG 4 | VBG 4 | VBG 4 |
| Connection cross-section | 2 x 2.5 mm ² | 2 x 2.5 mm ² | 2 x 2.5 mm ² | 2 x 2.5 mm ² |
| With ferrules | 2 x 1.5 mm ² | 2 x 1.5 mm ² | 2 x 1.5 mm ² | 2 x 1.5 mm ² |
| Screw torque | max. 0.8 Nm | max. 0.8 Nm | max. 0.8 Nm | max. 0.8 Nm |
| Approvals | UL/CSA | UL/CSA | UL/CSA | UL/CSA |

Holding clamp

| Type | PRS C 1/2 | PRS C 1/2 | PRS C 1/2 | PRS C 1/2 |
|-----------------------------|------------------|------------------|------------------|------------------|
| Cat. no./Qty. p.pck. | 15138.2/1 | 15138.2/1 | 15138.2/1 | 15138.2/1 |

Relay 2 CO contact, PRS 2 G

| PRS 2 G/110 V DC | PRS 2 G/24 V AC | PRS 2 G/115 V AC | PRS 2 G/230 V AC | | |
|--|---|---|--|--|--|
|  |  |  |  | | |
| PRS 2 G/110 V DC 15723.2/1 | PRS 2 G/24 V AC 15385.2/1 | PRS 2 G/115 V AC 15417.2/1 | PRS 2 G/230 V AC 15236.2/1 | | |
| 76 x 15.7 x 71 mm 60 g | 76 x 15.7 x 71 mm 60 g | 76 x 15.7 x 71 mm 60 g | 76 x 15.7 x 71 mm 60 g | | |

| PRS 2/110 V DC 15541.2/1 | PRS 2/24 V AC 6484.2/1 | PRS 2/115 V AC 15229.2/1 | PRS 2/230 V AC 6485.2/1 | | |
|-----------------------------|---------------------------|-----------------------------|----------------------------|--|--|
| 15 g | 15 g | 15 g | 15 g | | |

Insulation IEC 664/VDE 0110, rated voltage 250 V, pollution degree 3, overvoltage category III, flammability class UL 94 V-0

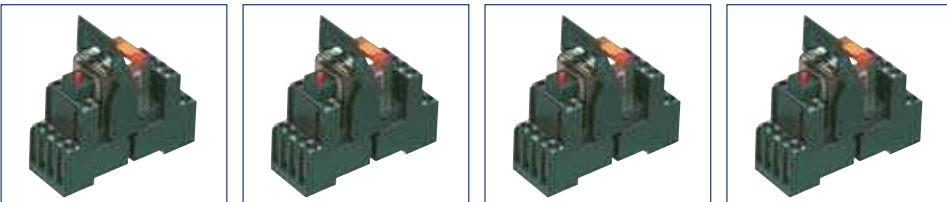
| | | | | | |
|--|---|---|---|--|--|
| 5 kV | 5 kV | 5 kV | 5 kV | | |
| 5 mm | 5 mm | 5 mm | 5 mm | | |
| -40 to +70°C | -40 to +70°C | -40 to +70°C | -40 to +70°C | | |
| 110 V DC 0.40 W | 24 V DC 0.75 VA | 115 V DC 0.75 VA | 230 V AC 0.75 VA | | |
| 2 CO contact 250 V AC/440 V AC 8 A/15 A 7 ms/2 ms AgNi 90/10 1.5 x 10 ⁵ 4 A, 230 V AC > 30 x 10 ⁶ | 2 CO contact 250 V AC/440 V AC 8 A/15 A 7 ms/2 ms AgNi 90/10 1.5 x 10 ⁵ 4 A, 230 V AC > 5 x 10 ⁶ | 2 CO contact 250 V AC/440 V AC 8 A/15 A 7 ms/2 ms AgNi 90/10 1.5 x 10 ⁵ 4 A, 230 V AC > 5 x 10 ⁶ | 2 CO contact 250 V AC/440 V AC 8 A/15 A 7 ms/2 ms AgNi 90/10 1.5 x 10 ⁵ 4 A, 230 V AC > 5 x 10 ⁶ | | |

| PRS LED 110 V DC 15422.2/1 | PRS LED 24 V UC 15175.2/1 | PRS LED 230 V AC 15142.2/1 | PRS LED 230 V AC 15142.2/1 | | |
|--|------------------------------------|-----------------------------------|-----------------------------------|--|--|
| Status display with free-wheel diode 60 to 110 V DC | Status display 12 to 48 V AC/DC | Status display 110 to 230 V AC | Status display 110 to 230 V AC | | |

| PRS 2 G 15320.2/1 | PRS 2 G 15320.2/1 | PRS 2 G 15320.2/1 | PRS 2 G 15320.2/1 | | |
|-------------------------|-------------------------|-------------------------|-------------------------|--|--|
| TS 35 | TS 35 | TS 35 | TS 35 | | |
| 5 mm pinning | 5 mm pinning | 5 mm pinning | 5 mm pinning | | |
| Screw connection | Screw connection | Screw connection | Screw connection | | |
| 10 A | 10 A | 10 A | 10 A | | |
| 300 V | 300 V | 300 V | 300 V | | |
| 4000 Veff | 4000 Veff | 4000 Veff | 4000 Veff | | |
| C/250 V | C/250 V | C/250 V | C/250 V | | |
| -25 to +80°C | -25 to +80°C | -25 to +80°C | -25 to +80°C | | |
| IP 20 | IP 20 | IP 20 | IP 20 | | |
| V-0 | V-0 | V-0 | V-0 | | |
| VBG 4 | VBG 4 | VBG 4 | VBG 4 | | |
| 2 x 2.5 mm ² | 2 x 2.5 mm ² | 2 x 2.5 mm ² | 2 x 2.5 mm ² | | |
| 2 x 1.5 mm ² | 2 x 1.5 mm ² | 2 x 1.5 mm ² | 2 x 1.5 mm ² | | |
| max. 0.8 Nm | max. 0.8 Nm | max. 0.8 Nm | max. 0.8 Nm | | |
| UL/CSA | UL/CSA | UL/CSA | UL/CSA | | |

| PRS C 1/2 15138.2/1 | PRS C 1/2 15138.2/1 | PRS C 1/2 15138.2/1 | PRS C 1/2 15138.2/1 | | |
|------------------------|------------------------|------------------------|------------------------|--|--|
| | | | | | |

Relay with 4 CO PRS 4

| Complete screw-connection components | PRS 4/12 V DC | PRS 4/24 V DC | PRS 4/48 V DC | PRS 4/60 V DC |
|--------------------------------------|--|----------------------|----------------------|----------------------|
| consisting of: |  | | | |
| · Relay | | | | |
| · Insert module | | | | |
| · Socket base | | | | |
| · Holding clamp | | | | |
| Type | PRS 4/12 V DC | PRS 4/24 V DC | PRS 4/48 V DC | PRS 4/60 V DC |
| Cat. no./Qty. p.pck. | 15167.2/1 | 15173.2/1 | 15724.2/1 | 15725.2/1 |
| Size (L x W x H) with TS 35 x 7.5 | 76 x 27.1 x 85 mm | 76 x 27.1 x 85 mm | 76 x 27.1 x 85 mm | 76 x 27.1 x 85 mm |
| Weight | 95 g | 95 g | 95 g | 95 g |

| Individual components | | | | |
|--|--|------------------------|------------------------|------------------------|
| Relay 4 W, open design, with switch | | | | |
| Type | PRS 4/12 V DC | PRS 4/24 V DC | PRS 4/48 V DC | PRS 4/60 V DC |
| Cat. no./Qty. p.pck. | 6486.2/1 | 6487.2/1 | 15461.2/1 | 15336.2/1 |
| Weight | 30 g | 30 g | 30 g | 30 g |
| General information | Insulation IEC 664/VDE 0110, rated voltage 250 V, pollution degree 3, overvoltage category III | | | |
| DIN-VDE specifications | Insulation IEC 664/VDE 0110, rated voltage 250 V, pollution degree 3, overvoltage category III | | | |
| Test voltage coil/contact | 2.5 kV | 2.5 kV | 2.5 kV | 2.5 kV |
| Operating temperature | -40 to +70°C | -40 to +70°C | -40 to +70°C | -40 to +70°C |
| Input data | | | | |
| Input voltage | 12 V DC | 24 V DC | 48 V DC | 60 V DC |
| Rated power consumption | 0.75 W | 0.75 W | 0.75 W | 0.75 W |
| Output data | | | | |
| Contacts | 4 CO contact | 4 CO contact | 4 CO contact | 4 CO contact |
| Switching voltage/Max. switching voltage | 250 V AC/250 V AC | 250 V AC/250 V AC | 250 V AC/250 V AC | 250 V AC/250 V AC |
| Max continuous current/inrush current | 6 A/12 A | 6 A/12 A | 6 A/12 A | 6 A/12 A |
| Typical response time/release time | 15 ms/10 ms | 15 ms/10 ms | 15 ms/10 ms | 15 ms/10 ms |
| Contact material | AgNi 90/10 | AgNi 90/10 | AgNi 90/10 | AgNi 90/10 |
| Electrical service life at contact load | 1.5 x 10 ⁵ | 1.5 x 10 ⁵ | 1.5 x 10 ⁵ | 1.5 x 10 ⁵ |
| Mechanical life span | > 30 x 10 ⁶ | > 30 x 10 ⁶ | > 30 x 10 ⁶ | > 30 x 10 ⁶ |

| Insert module | | | | |
|---|--------------------------------------|--------------------------------------|------------------|--------------------------------------|
| Type | PRS LED 24 V DC | PRS LED 24 V DC | PRS LED 24 V UC | PRS LED 110 V DC |
| Cat. no./Qty. p.pck. | 15141.2/1 | 15141.2/1 | 15175.2/1 | 15422.2/1 |
| protected against polarity reversal in parallel to coil | Status display with free-wheel diode | Status display with free-wheel diode | Status display | Status display with free-wheel diode |
| | 12 to 24 V DC | 12 to 24 V DC | 12 to 48 V AC/DC | 60 to 110 V DC |

| Socket base | | | | |
|-------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Type | PRS 4 | PRS 4 | PRS 4 | PRS 4 |
| Cat. no./Qty. p.pck. | 15137.2/1 | 15137.2/1 | 15137.2/1 | 15137.2/1 |
| General | | | | |
| Mounting foot for DIN rails | TS 35 | TS 35 | TS 35 | TS 35 |
| Plug-in modules for | 2.8mm fast-on | 2.8mm fast-on | 2.8mm fast-on | 2.8mm fast-on |
| Connection type | Screw connection | Screw connection | Screw connection | Screw connection |
| Technical data | | | | |
| Rated current | 10 A | 10 A | 10 A | 10 A |
| Rated voltage | 300 V | 300 V | 300 V | 300 V |
| Dielectric strength | 2400 Veff | 2400 Veff | 2400 Veff | 2400 Veff |
| Insulation group (VDE 0110 b) | C/250 V | C/250 V | C/250 V | C/250 V |
| Ambient temperature | -25 to +80°C | -25 to +80°C | -25 to +80°C | -25 to +80°C |
| Protection degree, enclosure | IP 20 | IP 20 | IP 20 | IP 20 |
| Flammability class UL 94 | V-0 | V-0 | V-0 | V-0 |
| Touch protection, acc. to | VBG 4 | VBG 4 | VBG 4 | VBG 4 |
| Connection cross-section | 2 x 2.5 mm ² | 2 x 2.5 mm ² | 2 x 2.5 mm ² | 2 x 2.5 mm ² |
| With ferrules | 2 x 1.5 mm ² | 2 x 1.5 mm ² | 2 x 1.5 mm ² | 2 x 1.5 mm ² |
| Screw torque | max. 0.8 Nm | max. 0.8 Nm | max. 0.8 Nm | max. 0.8 Nm |
| Approvals | UL/CSA | UL/CSA | UL/CSA | UL/CSA |

| Holding clamp | | | | |
|-----------------------------|------------------|------------------|------------------|------------------|
| Type | PRS C 4 | PRS C 4 | PRS C 4 | PRS C 4 |
| Cat. no./Qty. p.pck. | 15140.2/1 | 15140.2/1 | 15140.2/1 | 15140.2/1 |

| PRSU 4/110 V DC | PRSU 4/220 V DC | PRSU 4/12 V AC | PRSU 4/24 V AC | PRSU 4/115 V AC | PRSU 4/230 V AC |
|--------------------------------------|--------------------------------------|-------------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|
| | | | | | |
| PRSU 4/110 V DC 15726.2/1 | PRSU 4/220 V DC 15727.2/1 | PRSU 4/12 V AC 15392.2/1 | PRSU 4/24 V AC 15168.2/1 | PRSU 4/115 V AC 15728.2/1 | PRSU 4/230 V AC 15174.2/1 |
| 76 x 27.1 x 85 mm 95 g | 76 x 27.1 x 85 mm 95 g | 76 x 27.1 x 85 mm 95 g | 76 x 27.1 x 85 mm 95 g | 76 x 27.1 x 85 mm 95 g | 76 x 27.1 x 85 mm 95 g |

| PRS 4/110 V DC 15542.2/1 | PRS 4/220 V DC 15368.2/1 | PRS 4/12 V AC 15393.2/1 | PRS 4/24 V AC 6488.2/1 | PRS 4/115 V AC 15257.2/1 | PRS 4/230 V AC 6489.2/1 |
|-----------------------------|-----------------------------|----------------------------|---------------------------|-----------------------------|----------------------------|
| 30 g | 30 g | 30 g | 30 g | 30 g | 30 g |

| | | | | | |
|--|---|---|---|--|--|
| Insulation IEC 664/VDE 0110, rated voltage 250 V, pollution degree 3, overvoltage category III | | | | | |
| 2.5 kV -40 to +70°C | 2.5 kV -40 to +70°C | 2.5 kV -40 to +70°C | 2.5 kV -40 to +70°C | 2.5 kV -40 to +70°C | 2.5 kV -40 to +70°C |
| 110 V DC 0.75 W | 220 V DC 0.75 W | 12 V AC 1.0 VA | 24 V AC 1.0 VA | 115 V AC 1.0 VA | 230 V AC 1.0 VA |
| 4 CO contact 250 V/250 V AC 6 A/12 A 15 ms/10 ms AgNi 90/10 1.5 x 10 ⁵ 6 A, 250 V A > 30 x 10 ⁶ | 4 CO contact 250 V/250 V AC 6 A/12 A 15 ms/10 ms AgNi 90/10 1.5 x 10 ⁵ 6 A, 250 V AC > 30 x 10 ⁶ | 4 CO contact 250 V/250 V AC 6 A/12 A 15 ms/10 ms AgNi 90/10 1.5 x 10 ⁵ 6 A, 250 V AC > 20 x 10 ⁶ | 4 CO contact 250 V/250 V AC 6 A/12 A 15 ms/10 ms AgNi 90/10 1.5 x 10 ⁵ 6 A, 250 V AC > 20 x 10 ⁶ | 4 CO contact 250 V AC/250 V AC 6 A/12 A 15 ms/10 ms AgNi 90/10 1.5 x 10 ⁵ 6 A, 250 V AC > 20 x 10 ⁶ | 4 CO contact 250 V AC/250 V AC 6 A/12 A 15 ms/10 ms AgNi 90/10 1.5 x 10 ⁵ 6 A, 250 V AC > 20 x 10 ⁶ |

| PRS LED 110 V DC 15422.2/1 | PRS LED 230 V AC 15142.2/1 | PRS LED 24 V UC 15175.2/1 | PRS LED 24 V UC 15175.2/1 | PRS LED 230 V AC 15142.2/1 | PRS LED 230 V AC 15142.2/1 |
|--|-----------------------------------|------------------------------------|------------------------------------|--------------------------------------|-----------------------------------|
| Status display with free-wheel diode 60 to 110 V DC | Status display 110 to 230 V DC | Status display 12 to 48 V AC/DC | Status display 12 to 48 V AC/DC | Status display 110 to 230 V AC/DC | Status display 110 to 230 V AC |

| PRS 4 15137.2/1 | PRS 4 15137.2/1 | PRS 4 15137.2/1 | PRS 4 15137.2/1 | PRS 4 15137.2/1 | PRS 4 15137.2/1 |
|---|---|---|---|---|---|
| TS 35 2.8mm fast-on Screw connection | TS 35 2.8mm fast-on Screw connection | TS 35 2.8mm fast-on Screw connection | TS 35 2.8mm fast-on Screw connection | TS 35 2.8mm fast-on Screw connection | TS 35 2.8mm fast-on Screw connection |
| 10 A 300 V 2400 Veff C/250 V -25 to +80°C IP 20 V-0 VBG 4 2 x 2.5mm ² 2 x 1.5mm ² max. 0.8 Nm UL/CSA | 10 A 300 V 2400 Veff C/250 V -25 to +80°C IP 20 V-0 VBG 4 2 x 2.5mm ² 2 x 1.5mm ² max. 0.8 Nm UL/CSA | 10 A 300 V 2400 Veff C/250 V -25 to +80°C IP 20 V-0 VBG 4 2 x 2.5mm ² 2 x 1.5mm ² max. 0.8 Nm UL/CSA | 10 A 300 V 2400 Veff C/250 V -25 to +80°C IP 20 V-0 VBG 4 2 x 2.5mm ² 2 x 1.5mm ² max. 0.8 Nm UL/CSA | 10 A 300 V 2400 Veff C/250 V -25 to +80°C IP 20 V-0 VBG 4 2 x 2.5mm ² 2 x 1.5mm ² max. 0.8 Nm UL/CSA | 10 A 300 V 2400 Veff C/250 V -25 to +80°C IP 20 V-0 VBG 4 2 x 2.5mm ² 2 x 1.5mm ² max. 0.8 Nm UL/CSA |

| PRS C 4 15140.2/1 | PRS C 4 15140.2/1 | PRS C 4 15140.2/1 | PRS C 4 15140.2/1 | PRS C 4 15140.2/1 | PRS C 4 15140.2/1 |
|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|

Relay 4 CO contact, PRS 4 G

| Complete screw-connection components | PRSU 4 G/12 V DC | PRSU 4 G/24 V DC | PRSU 4 G/48 V DC | PRSU 4 G/60 V DC |
|--------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| consisting of: | | | | |
| · Relay | | | | |
| · Insert module | | | | |
| · Socket base | | | | |
| · Holding clamp | | | | |
| Type | PRSU 4 G/12 V DC | PRSU 4 G/24 V DC | PRSU 4 G/48 V DC | PRSU 4 G/60 V DC |
| Cat. no./Qty. p.pck. | 15421.2/1 | 15332.2/1 | 15729.2/1 | 15730.2/1 |
| Size (L x W x H) with TS 35 x 7.5 | 76 x 27.1 x 87 mm | 76 x 27.1 x 87 mm | 76 x 27.1 x 87 mm | 76 x 27.1 x 87 mm |
| Weight | 95 g | 95 g | 95 g | 95 g |

Individual components






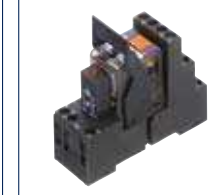
Relay 4 W, open design, with switch

| Type | PRS 4/12 V DC | PRS 4/24 V DC | PRS 4/48 V DC | PRS 4/60 V DC |
|--|--|------------------------|------------------------|------------------------|
| Cat. no./Qty. p.pck. | 6486.2/1 | 6487.2/1 | 15461.2/1 | 15336.2/1 |
| Weight | 30 g | 30 g | 30 g | 30 g |
| General information | Insulation IEC 664/VDE 0110, rated voltage 250 V, pollution degree 3, overvoltage category III | | | |
| DIN-VDE specifications | | | | |
| Test voltage coil/contact | 2.5 kV | 2.5 kV | 2.5 kV | 2.5 kV |
| Operating temperature | -40 to +70°C | -40 to +70°C | -40 to +70°C | -40 to +70°C |
| Input data | | | | |
| Input voltage | 12 V DC | 24 V DC | 48 V DC | 60 V DC |
| Rated power consumption | 0.75 W | 0.75 W | 0.75 W | 0.75 W |
| Output data | | | | |
| Contacts | 4 CO contact | 4 CO contact | 4 CO contact | 4 CO contact |
| Switching voltage/Max. switching voltage | 250 V AC/250 V AC | 250 V AC/250 V AC | 250 V AC/250 V AC | 250 V AC/250 V AC |
| Max continuous current/inrush current | 6 A/12 A | 6 A/12 A | 6 A/12 A | 6 A/12 A |
| Typical response time/release time | 15 ms/10 ms | 15 ms/10 ms | 15 ms/10 ms | 15 ms/10 ms |
| Contact material | AgNi 90/10 | AgNi 90/10 | AgNi 90/10 | AgNi 90/10 |
| Electrical service life at contact load | 1.5 x 10 ⁵ | 1.5 x 10 ⁵ | 1.5 x 10 ⁵ | 1.5 x 10 ⁵ |
| Mechanical life span | > 30 x 10 ⁶ | > 30 x 10 ⁶ | > 30 x 10 ⁶ | > 30 x 10 ⁶ |

| Insert module | PRS LED 24 V DC | PRS LED 24 V DC | PRS LED 24 V UC | PRS LED 110 V DC |
|---|---|---|------------------------------------|--|
| Cat. no./Qty. p.pck. | 15141.2/1 | 15141.2/1 | 15175.2/1 | 15422.2/1 |
| protected against polarity reversal in parallel to coil | Status display with free-wheel diode 12 to 24 V DC | Status display with free-wheel diode 12 to 24 V DC | Status display 12 to 48 V AC/DC | Status display with free-wheel diode 60 to 110 V DC |

| Socket base | PRS 4 G | PRS 4 G | PRS 4 G | PRS 4 G |
|-------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Cat. no./Qty. p.pck. | 15137.2/1 | 15137.2/1 | 15137.2/1 | 15137.2/1 |
| General | | | | |
| Mounting foot for DIN rails | TS 35 | TS 35 | TS 35 | TS 35 |
| Plug-in modules for | 2.8mm fast-on | 2.8mm fast-on | 2.8mm fast-on | 2.8mm fast-on |
| Connection type | Screw connection | Screw connection | Screw connection | Screw connection |
| Technical data | | | | |
| Rated current | 10 A | 10 A | 10 A | 10 A |
| Rated voltage | 300 V | 300 V | 300 V | 300 V |
| Dielectric strength | 2400 Veff | 2400 Veff | 2400 Veff | 2400 Veff |
| Insulation group (VDE 0110 b) | C/250 V | C/250 V | C/250 V | C/250 V |
| Ambient temperature | -25 to +80°C | -25 to +80°C | -25 to +80°C | -25 to +80°C |
| Protection degree, enclosure | IP 20 | IP 20 | IP 20 | IP 20 |
| Flammability class UL 94 | V-0 | V-0 | V-0 | V-0 |
| Touch protection, acc. to | VBG 4 | VBG 4 | VBG 4 | VBG 4 |
| Connection cross-section | 2 x 2.5 mm ² | 2 x 2.5 mm ² | 2 x 2.5 mm ² | 2 x 2.5 mm ² |
| With ferrules | 2 x 1.5 mm ² | 2 x 1.5 mm ² | 2 x 1.5 mm ² | 2 x 1.5 mm ² |
| Screw torque | max. 0.8 Nm | max. 0.8 Nm | max. 0.8 Nm | max. 0.8 Nm |
| Approvals | UL/CSA | UL/CSA | UL/CSA | UL/CSA |

| Holding clamp | PRS C 4 | PRS C 4 | PRS C 4 | PRS C 4 |
|-----------------------------|------------------|------------------|------------------|------------------|
| Cat. no./Qty. p.pck. | 15140.2/1 | 15140.2/1 | 15140.2/1 | 15140.2/1 |

| PRSU 4 G/110 V DC | PRSU 4 G/220 V DC | PRSU 4 G/12 V AC | PRSU 4 G/24 V AC | PRSU 4 G/115 V AC | PRSU 4 G/230 V AC |
|--|---|---|--|---|---|
|  |  |  |  |  |  |
| PRSU 4 G/110 V DC 15731.2/1 | PRSU 4 G/220 V DC 15732.2/1 | PRSU 4 G/12 V AC 15420.2/1 | PRSU 4 G/24 V AC 15371.2/1 | PRSU 4 G/115 V AC 15733.2/1 | PRSU 4 G/230 V AC 15372.2/1 |
| 76 x 27.1 x 87 mm 95 g | 76 x 27.1 x 87 mm 95 g | 76 x 27.1 x 87 mm 95 g | 76 x 27.1 x 87 mm 95 g | 76 x 27.1 x 87 mm 95 g | 76 x 27.1 x 87 mm 95 g |

| PRS 4/110 V DC 15542.2/1 | PRS 4/220 V DC 15368.2/1 | PRS 4/12 V AC 15393.2/1 | PRS 4/24 V AC 6488.2/1 | PRS 4/115 V AC 15257.2/1 | PRS 4/230 V AC 6489.2/1 |
|-----------------------------|-----------------------------|----------------------------|---------------------------|-----------------------------|----------------------------|
| 30 g | 30 g | 30 g | 30 g | 30 g | 30 g |





| | | | | | |
|--|--|--|--|--|--|
| Insulation IEC 664/VDE 0110, rated voltage 250 V, pollution degree 3, overvoltage category III | | | | | |
| 2.5 kV -40 to +70°C | 2.5 kV -40 to +70°C | 2.5 kV -40 to +70°C | 2.5 kV -40 to +70°C | 2.5 kV -40 to +70°C | 2.5 kV -40 to +70°C |
| 110 V DC 0.75 W | 220 V DC 0.75 W | 12 V AC 1.0 VA | 24 V AC 1.0 VA | 115 V AC 1.0 VA | 230 V AC 1.0 VA |
| 4 CO contact 250 V AC/250 V AC 6 A/12 A 15 ms/10 ms AgNi 90/10 1.5 x 10 ⁵ 6 A, 250 V AC > 30 x 10 ⁶ | 4 CO contact 250 V AC/250 V AC 6 A/12 A 15 ms/10 ms AgNi 90/10 1.5 x 10 ⁵ 6 A, 250 V AC > 30 x 10 ⁶ | 4 CO contact 250 V AC/250 V AC 6 A/12 A 15 ms/10 ms AgNi 90/10 1.5 x 10 ⁵ 6 A, 250 V AC > 20 x 10 ⁶ | 4 CO contact 250 V AC/250 V AC 6 A/12 A 15 ms/10 ms AgNi 90/10 1.5 x 10 ⁵ 6 A, 250 V AC > 20 x 10 ⁶ | 4 CO contact 250 V AC/250 V AC 6 A/12 A 15 ms/10 ms AgNi 90/10 1.5 x 10 ⁵ 6 A, 250 V AC > 20 x 10 ⁶ | 4 CO contact 250 V AC/250 V AC 6 A/12 A 15 ms/10 ms AgNi 90/10 1.5 x 10 ⁵ 6 A, 250 V AC > 20 x 10 ⁶ |

| PRS LED 110 V DC 15422.2/1 | PRS LED 230 V AC 15142.2/1 | PRS LED 24 V UC 15175.2/1 | PRS LED 24 V UC 15175.2/1 | PRS LED 230 V AC 15142.2/1 | PRS LED 230 V AC 15142.2/1 |
|--|-----------------------------------|------------------------------------|------------------------------------|-----------------------------------|-----------------------------------|
| Status display with free-wheel diode 60 to 110 V DC | Status display 110 to 230 V AC | Status display 12 to 48 V AC/DC | Status display 12 to 48 V AC/DC | Status display 110 to 230 V AC | Status display 110 to 230 V AC |

| PRS 4 G 15137.2/1 | PRS 4 G 15137.2/1 | PRS 4 G 15137.2/1 | PRS 4 G 15137.2/1 | PRS 4 G 15137.2/1 | PRS 4 G 15137.2/1 |
|---|---|---|---|---|---|
| TS 35 2.8mm fast-on Screw connection | TS 35 2.8mm fast-on Screw connection | TS 35 2.8mm fast-on Screw connection | TS 35 2.8mm fast-on Screw connection | TS 35 2.8mm fast-on Screw connection | TS 35 2.8mm fast-on Screw connection |
| 10 A 300 V 2400 Veff C/250 V -25 to +80°C IP 20 V-0 VBG 4 2 x 2.5mm ² 2 x 1.5mm ² max. 0.8 Nm UL/CSA | 10 A 300 V 2400 Veff C/250 V -25 to +80°C IP 20 V-0 VBG 4 2 x 2.5mm ² 2 x 1.5mm ² max. 0.8 Nm UL/CSA | 10 A 300 V 2400 Veff C/250 V -25 to +80°C IP 20 V-0 VBG 4 2 x 2.5mm ² 2 x 1.5mm ² max. 0.8 Nm UL/CSA | 10 A 300 V 2400 Veff C/250 V -25 to +80°C IP 20 V-0 VBG 4 2 x 2.5mm ² 2 x 1.5mm ² max. 0.8 Nm UL/CSA | 10 A 300 V 2400 Veff C/250 V -25 to +80°C IP 20 V-0 VBG 4 2 x 2.5mm ² 2 x 1.5mm ² max. 0.8 Nm UL/CSA | 10 A 300 V 2400 Veff C/250 V -25 to +80°C IP 20 V-0 VBG 4 2 x 2.5mm ² 2 x 1.5mm ² max. 0.8 Nm UL/CSA |

| PRS C 4 15140.2/1 | PRS C 4 15140.2/1 | PRS C 4 15140.2/1 | PRS C 4 15140.2/1 | PRS C 4 15140.2/1 | PRS C 4 15140.2/1 |
|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|


Relay 4 CO PRS 4 eco

| Complete screw-connection components | PRSU 4/24 V DC eco | PRSU 4/24 V AC eco | PRSU 4/230 V AC eco | PRSU 4 G/24 V DC eco |
|--|---|--|---|---|
| consisting of: · Relay · Socket base |  |  |  |  |
| Type | PRSU 4/24 V DC eco | PRSU 4/24 V AC eco | PRSU 4/230 V AC eco | PRSU 4 G/24 V DC eco |
| Cat. no./Qty. p.pck. | 15619.2/1 | 15620.2/1 | 15621.2/1 | 15622.2/1 |
| Size (L x W x H) with TS 35 x 7.5 | 76 x 27.1 x 68 mm | 76 x 27.1 x 68 mm | 76 x 27.1 x 68 mm | 76 x 27.1 x 68 mm |
| Weight | 95 g | 95 g | 95 g | 95 g |

| Individual components | | | | |
|--|--|---------------------|---------------------|---------------------|
| Relay 4 W, open design, with switch and status display | | | | |
| Type | PRS 4/24 V DC eco | PRS 4/24 V AC eco | PRS 4/230 V AC eco | PRS 4/24 V DC eco |
| Cat. no./Qty. p.pck. | 15591.2/1 | 15592.2/1 | 15621.2/1 | 15591.2/1 |
| Weight | 35 g | 35 g | 35 g | 35 g |
| General information | Insulation IEC 664/VDE 0110, rated voltage 250 V, pollution degree 3, overvoltage category III | | | |
| DIN-VDE specifications | 3 kV | | | |
| Test voltage coil/contact | -25 to +55°C | | | |
| Operating temperature | -25 to +55°C | | | |
| Input data | -25 to +55°C | | | |
| Input voltage | 12 V DC | 24 V AC | 230 V AC | 12 DC |
| Rated power consumption | 0.9 W | 1.27 VA | 1.61 VA | 0.9 W |
| Output data | 1.61 VA | | | |
| Contacts | 4 CO contact | 4 CO contact | 4 CO contact | 4 CO contact |
| Switching voltage/Max. switching voltage | 250 V AC/250 V AC | 250 V AC/250 V AC | 250 V AC/250 V AC | 250 V AC/250 V AC |
| Max continuous current/inrush current | 5 A/5 A | 5 A/5 A | 5 A/5 A | 5 A/5 A |
| Typical response time/release time | 25 ms/25 ms | 25 ms/25 ms | 25 ms/25 ms | 25 ms/25 ms |
| Contact material | AgNi 90/10 | AgNi 90/10 | AgNi 90/10 | AgNi 90/10 |
| Electrical service life | 1 x 10 ⁵ | 1 x 10 ⁵ | 1 x 10 ⁵ | 1 x 10 ⁵ |
| at contact load | 5 A, 250 V AC | 5 A, 250 V AC | 5 A, 250 V AC | 5 A, 250 V AC |
| Mechanical life span | 1 x 10 ⁷ | 1 x 10 ⁷ | 1 x 10 ⁷ | 1 x 10 ⁷ |

| Socket base | | | | |
|-------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Type | PRS 4 | PRS 4 | PRS 4 | PRS 4 G |
| Cat. no./Qty. p.pck. | 15137.2/1 | 15137.2/1 | 15137.2/1 | 15324.2/1 |
| General | 15324.2/1 | | | |
| Mounting foot for DIN rails | TS 35 | TS 35 | TS 35 | TS 35 |
| Plug-in modules for | 2.8mm fast-on | 2.8mm fast-on | 2.8mm fast-on | 2.8mm fast-on |
| Connection type | Screw connection | Screw connection | Screw connection | Screw connection |
| Technical data | Screw connection | | | |
| Rated current | 10 A | 10 A | 10 A | 10 A |
| Rated voltage | 300 V | 300 V | 300 V | 300 V |
| Dielectric strength | 2400 Veff | 2400 Veff | 2400 Veff | 2400 Veff |
| Insulation group (VDE 0110 b) | C/250 V | C/250 V | C/250 V | C/250 V |
| Ambient temperature | -25 to +80°C | -25 to +80°C | -25 to +80°C | -25 to +80°C |
| Protection degree, enclosure | IP 20 | IP 20 | IP 20 | IP 20 |
| Flammability class UL 94 | V-0 | V-0 | V-0 | V-0 |
| Touch protection, acc. to | VBG 4 | VBG 4 | VBG 4 | VBG 4 |
| Connection cross-section | 2 x 2.5 mm ² | 2 x 2.5 mm ² | 2 x 2.5 mm ² | 2 x 2.5 mm ² |
| With ferrules | 2 x 1.5 mm ² | 2 x 1.5 mm ² | 2 x 1.5 mm ² | 2 x 1.5 mm ² |
| Screw torque | max. 0.8 Nm | max. 0.8 Nm | max. 0.8 Nm | max. 0.8 Nm |
| Approvals | UL/CSA | UL/CSA | UL/CSA | UL/CSA |

| Accessory, Holding clamp | | | | |
|-----------------------------|------------------|------------------|------------------|------------------|
| Type | PRS C 4 eco | PRS C 4 eco | PRS C 4 eco | PRS C 4 eco |
| Cat. no./Qty. p.pck. | 15628.2/1 | 15628.2/1 | 15628.2/1 | 15628.2/1 |

| | | | | | |
|--|---|--|--|--|--|
| PRSU 4 G/24 V AC eco | PRSU 4 G/230 V AC eco | | | | |
|  |  | | | | |
| PRSU 4 G/24 V AC eco 15623.2/1 | PRSU 4 G/230 V AC eco 15624.2/1 | | | | |
| 76 x 27.1 x 68 mm 95 g | 76 x 27.1 x 68 mm 95 g | | | | |

| | | | | | |
|--|---|--|--|--|--|
| PRS 4/24 V AC eco 15592.2/1 | PRS 4/230 V AC eco 15593.2/1 | | | | |
| 35 g | 35 g | | | | |

Insulation IEC 664/VDE 0110, rated voltage 250 V, pollution degree 3, overvoltage category III

| | | | | | |
|---------------------|---------------------|--|--|--|--|
| 3 kV | 3 kV | | | | |
| -25 to +55°C | -25 to +55°C | | | | |
| 24 V AC | 230 V AC | | | | |
| 1.27 VA | 1.61 VA | | | | |
| 4 CO contact | 4 CO contact | | | | |
| 250 V AC/250 V AC | 250 V AC/250 V AC | | | | |
| 5 A/5 A | 5 A/5 A | | | | |
| 25 ms/25 ms | 25 ms/25 ms | | | | |
| AgNi 90/10 | AgNi 90/10 | | | | |
| 1 x 10 ⁵ | 1 x 10 ⁵ | | | | |
| 5 A, 250 V AC | 5 A, 250 V AC | | | | |
| 1 x 10 ⁷ | 1 x 10 ⁷ | | | | |

| | | | | | |
|------------------------------------|------------------------------------|--|--|--|--|
| PRS 4 G 15324.2/1 | PRS 4 G 15324.2/1 | | | | |
| TS 35 | TS 35 | | | | |
| 2.8mm fast-on | 2.8mm fast-on | | | | |
| Screw connection | Screw connection | | | | |
| 10 A | 10 A | | | | |
| 300 V | 300 V | | | | |
| 2400 Veff | 2400 Veff | | | | |
| C/250 V | C/250 V | | | | |
| -25 to +80°C | -25 to +80°C | | | | |
| IP 20 | IP 20 | | | | |
| V-0 | V-0 | | | | |
| VBG 4 | VBG 4 | | | | |
| 2 x 2.5 mm ² | 2 x 2.5 mm ² | | | | |
| 2 x 1.5 mm ² | 2 x 1.5 mm ² | | | | |
| max. 0.8 Nm | max. 0.8 Nm | | | | |
| UL/CSA | UL/CSA | | | | |

| | | | | | |
|--|--|--|--|--|--|
| PRS C 4 eco 15628.2/1 | PRS C 4 eco 15628.2/1 | | | | |
|--|--|--|--|--|--|

Relay modules with 1 CO RM 1

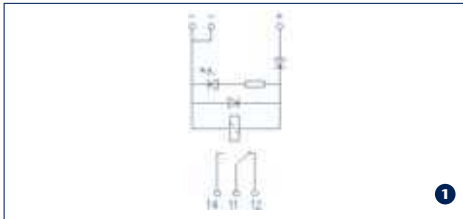
- Mount on TS 32/TS 35
- Screw connection
- Input side: suppression and reverse-polarity protection diode
- LED for indicating the switching status
- Relays available as solder-in or pluggable

RM 1/1 W Pluggable relay 1 CO contact

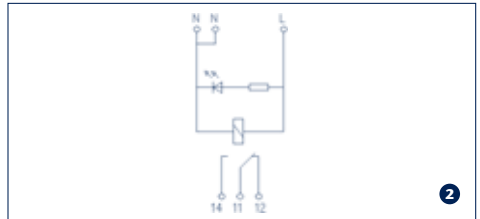
RMD 1/1 W Soldered relay 1 CO contact



Circuit diagram



Circuit diagram



| Size (L x W x H) with TS | 87 x 20 x 72 mm | |
|--------------------------|--------------------|-----------------|
| Weight | 57 g | |
| Cat. no./Qty. p.pck. | Type | Circuit diagram |
| Pluggable relay | | |
| 6584.2/1 | RM 1/1 W/12 V DC | 1 |
| 5450.2/1 | RM 1/1 W/24 V DC | 1 |
| 5602.2/1 | RM 1/1 W/115 V DC | 1 |
| 5598.2/1 | RM 1/1 W/24 V AC | 2 |
| 5460.2/1 | RM 1/1 W/115 V AC | 2 |
| 5462.2/1 | RM 1/1 W/230 V AC | 2 |
| Soldered relay | | |
| 6585.2/1 | RMD 1/1 W/12 V DC | 1 |
| 5451.2/1 | RMD 1/1 W/24 V DC | 1 |
| 5603.2/1 | RMD 1/1 W/115 V DC | 1 |
| 5599.2/1 | RMD 1/1 W/24 V AC | 2 |
| 5461.2/1 | RMD 1/1 W/115 V AC | 2 |
| 5463.2/1 | RMD 1/1 W/230 V AC | 2 |
| Relay | | |
| Relay | Pluggable/soldered | |
| Contacts | 1 CO contact | |
| Design | Closed | |

| General information | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III |
|---------------------|---|
|---------------------|---|

| | |
|-----------------------------|------------------------------------|
| Test voltage coil/contact | 4 kV |
| Pinning | 5 mm |
| Operating temperature | -20 to +50°C |
| Insulation stripping length | 7 mm |
| Conductor cross-section | 0.2-2.5 mm ² /AWG 22-14 |

| Relay data | | | | |
|---|-------------------------|-------------------------|-------------------------|-------------------------|
| Input data | | | | |
| Input voltage ±10% | 12 V DC | 24 V DC | 115 V DC | 24 V AC |
| Power consumption ±10% | 0.6 W | 0.6 W | 0.6 W | 1.0 VA |
| Status indication (LED) | red | red | red | red |
| Output data | | | | |
| Contacts | 1/2 CO contact | 1/2 CO contact | 1/2 CO contact | 1/2 CO contact |
| Max. switching voltage | 250 V AC | 250 V AC | 250 V AC | 250 V AC |
| Max continuous current/inrush current | 6 A/10 A* | 6 A/10 A* | 6 A/10 A* | 6 A/10 A* |
| Max. power rating (ohmic load) | 2000 VA at 250 VAC, 8 A | 2000 VA at 250 VAC, 8 A | 2000 VA at 250 VAC, 8 A | 2000 VA at 250 VAC, 8 A |
| Typical response time/release time | 9 ms/7 ms | 9 ms/7 ms | 9 ms/7 ms | 15 ms/10 ms |
| Contact material | AgNi | AgNi | AgNi | AgNi |
| Electrical life span at max. contact load | > 5 x 10 ⁵ | > 5 x 10 ⁵ | > 5 x 10 ⁵ | > 5 x 10 ⁵ |
| Mechanical life span | > 2 x 10 ⁷ | > 2 x 10 ⁷ | > 2 x 10 ⁷ | > 2 x 10 ⁷ |

*2 CO relays 6 A/10 A, 1 CO relay 8 A/10A

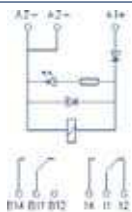
Relay modules 2 CO RM 1/2

RM 1/2 W
Pluggable relay
2 CO contact

RMD 1/2 W
Soldered relay
2 CO contact

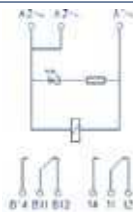


Circuit diagram



3

Circuit diagram



4

Size (L x W x H) with TS 35 x 7.5 87 x 26 x 76 mm
Weight 60 g

Cat. no./Qty. p.pck.

Pluggable relay

Type

Circuit diagram

| | | |
|-----------------|-------------------|---|
| 6586.2/1 | RM 1/2 W/12 V DC | 3 |
| 5550.2/1 | RM 1/2 W/24 V DC | 3 |
| 5652.2/1 | RM 1/2 W/115 V DC | 3 |
| 5648.2/1 | RM 1/2 W/24 V AC | 4 |
| 5562.2/1 | RM 1/2 W/115 V AC | 4 |
| 5564.2/1 | RM 1/2 W/230 V AC | 4 |

Soldered relay

| | | |
|-----------------|--------------------|---|
| 6587.2/1 | RMD 1/2 W/12 V DC | 3 |
| 5551.2/1 | RMD 1/2 W/24 V DC | 3 |
| 5653.2/1 | RMD 1/2 W/115 V DC | 3 |
| 5649.2/1 | RMD 1/2 W/24 V AC | 4 |
| 5563.2/1 | RMD 1/2 W/115 V AC | 4 |
| 5565.2/1 | RMD 1/2 W/230 V AC | 4 |

Relay with gold contact

| | | |
|-----------------|----------------------|---|
| 6229.2/1 | RMD 1 Au/2 W 24 V DC | 3 |
| Relay | pluggable/soldered | |
| Contacts | 2 CO contact | |
| Design | Closed | |

DIN EN 50178, DIN VDE 0110,
pollution degree 2, overvoltage category III

4 kV
5 mm
-20 to +50°C
7 mm
0.2-2.5 mm²/AWG 22-14

| | | |
|--------------------------|--------------------------|-----------------------|
| 115 V AC | 230 V AC | 24 V DC (RMD 1 Au) |
| 1.0 VA | 1.0 VA | 0.4 W |
| red | red | red |
| 1/2 CO contact | 1/2 CO contact | 1/2 CO contact |
| 250 V AC | 250 V AC | 250 V AC |
| 6 A/10 A* | 6 A/10 A* | 1 A/1 A |
| 2000 VA at 250 V AC, 8 A | 2000 VA at 250 V AC, 8 A | 125 VA/30 W |
| 15 ms/8 ms | 15 ms/10 ms | 6 ms/5 ms |
| AgNi | AgNi | AgPd 60/10+10µm Au |
| > 5 x 10 ⁵ | > 5 x 10 ⁵ | > 5 x 10 ⁵ |
| > 2 x 10 ⁷ | > 2 x 10 ⁷ | > 2 x 10 ⁷ |

Relay modules RM-S

- Mount on TS 32/TS 35
- Screw connection
- Input side: suppression and reverse-polarity protection diode
- LED for indication of switching status is possible
- Thin design, a width of 11.2 mm

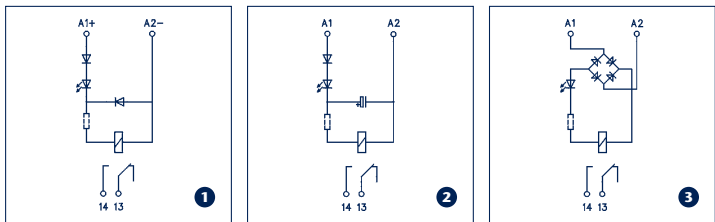
| General information | |
|-----------------------------|--|
| DIN-VDE specifications | DIN EN 50178; DIN VDE 0110, pollution degree 2, overvoltage category III |
| Test voltage coil/contact | 4 kV |
| Operating temperature | -20 to +50 °C |
| Insulation stripping length | 7 mm |
| Connection cross-section | 0.2-2.5 mm ² /AWG 22-14 |
| Relay | soldered |
| Design | Closed |

| Relay data | | | | | |
|---|--|--|--|--|--|
| Input data | | | | | |
| Input voltage ±10% | 12 V DC | 24 V DC | 48 V DC | 60 V DC | |
| Power consumption ±10% | 0.6 W | 0.6 W | 0.6 W | 0.6 W | |
| Output data | | | | | |
| Contacts | | | | | |
| Max. switching voltage | 250 V AC | 250 V AC | 250 V AC | 250 V AC | |
| Max continuous current/inrush current | 6 A/8 A | 6 A/8 A | 6 A/8 A | 6 A/8 A | |
| Max. power rating (ohmic load) | 2000 VA at 250 V AC, 8 A/ 192 W at 24 V DC, 8 A | 2000 VA at 250 V AC, 8 A/ 192 W at 24 V DC, 8 A | 2000 VA at 250 V AC, 8 A/ 192 W at 24 V DC, 8 A | 2000 VA at 250 V AC, 8 A/ 192 W at 24 V DC, 8 A | |
| Typical response time/release time | 9 ms/ 7 ms | 9 ms/ 7 ms | 9 ms/ 7 ms | 9 ms/ 7 ms | |
| Contact material | AgNi | AgNi | AgNi | AgNi | |
| Electrical life span at max. contact load | > 1.5 x 10 ⁵ | > 1.5 x 10 ⁶ | > 1.5 x 10 ⁷ | > 1.5 x 10 ⁸ | |
| Mechanical life span | > 1 x 10 ⁷ | > 1 x 10 ⁸ | > 1 x 10 ⁹ | > 1 x 10 ¹⁰ | |

RM-S Soldered relay 1 NO



Circuit diagram



| Cat. no./Qty. p.pck. | Type | Circuit diagram |
|---|-----------------------|-----------------|
| Size (L x W x H) with TS 35 x 7.5 77 x 11.2 x 55 mm | | |
| Weight 30 g | | |
| red LED | | |
| 6347.2/1 | RM-SR/1 S/12 V DC | 1 |
| 5400.2/1 | RM-SR/1 S/24 V DC | 1 |
| 5412.2/1 | RM-SR/1 S/48 V DC | 1 |
| 5424.2/1 | RM-SR/1 S/60 V DC | 1 |
| 6356.2/1 | RM-SR/1 S/12 V DC/AC | 2 |
| 5406.2/1 | RM-SR/1 S/24 V DC/AC | 2 |
| 5418.2/1 | RM-SR/1 S/48 V DC/AC | 2 |
| 5430.2/1 | RM-SR/1 S/115 V DC/AC | 3 |
| 5436.2/1 | RM-SR/1 S/230 V DC/AC | 3 |
| green LED | | |
| 6348.2/1 | RM-SG/1 S/12 V DC | 1 |
| 5401.2/1 | RM-SG/1 S/24 V DC | 1 |
| 5413.2/1 | RM-SG/1 S/48 V DC | 1 |
| 5425.2/1 | RM-SG/1 S/60 V DC | 1 |
| 6357.2/1 | RM-SG/1 S/12 V DC/AC | 2 |
| 5407.2/1 | RM-SG/1 S/24 V DC/AC | 2 |
| 5419.2/1 | RM-SG/1 S/48 V DC/AC | 2 |
| 5431.2/1 | RM-SG/1 S/115 V DC/AC | 3 |
| 5437.2/1 | RM-SG/1 S/230 V DC/AC | 3 |
| without LED | | |
| 6349.2/1 | RM-S/1 S/12 V DC | 1 |
| 5402.2/1 | RM-S/1 S/24 V DC | 1 |
| 5414.2/1 | RM-S/1 S/48 V DC | 1 |
| 5426.2/1 | RM-S/1 S/60 V DC | 1 |
| 6358.2/1 | RM-S/1 S/12 V DC/AC | 2 |
| 5408.2/1 | RM-S/1 S/24 V DC/AC | 2 |
| 5420.2/1 | RM-S/1 S/48 V DC/AC | 2 |

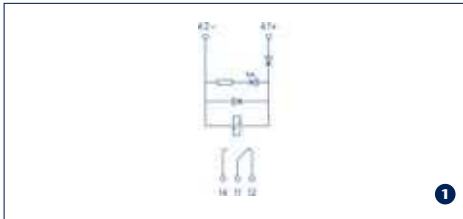
Relay modules 1 CO RML

- Mount on TS 32/TS 35
- Screw connection
- LED for indicating the switching status
- Power relay, 16 A

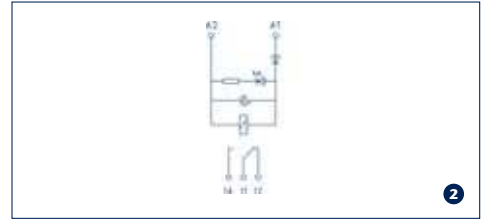
RML/1 W Soldered relay 1 CO contact



Circuit diagram



Circuit diagram



| Cat. no./Qty. p.pck. | Type | Circuit diagram |
|-----------------------|--------------------|-----------------|
| Soldered relay | | |
| 5800.2/1 | RML/1 W/24 V DC | 1 |
| 5801.2/1 | RML/1 W/24 V AC/DC | 2 |
| 5802.2/1 | RML/1 W/48 V DC | 1 |
| Load relay | | |
| 6920.0 | RML-L/1 W/24 V DC | 1 |

| | |
|--------------------------------------|--|
| Size (L x W x H) with TS 35 x 7.5 | 87 x 24 x 68 mm |
| Weight | 53 g |
| Relay | soldered |
| Contacts | 1 CO |
| Design | closed |
| General information | |
| DIN-VDE specifications | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III |
| Test voltage coil/ contact | 4 kV |
| Operating temperature | -20 to +50°C |
| Insulation stripping length | 7 mm |
| Connection cross-section | 0.2-2.5 mm ² /AWG 22-14 |

| Relay data | | | | RML-L |
|---|------------------------------|------------------------------|------------------------------|------------------------------|
| Input data | | | | |
| Input voltage ±10% | 24 V DC | 24 V AC/DC | 48 V DC | 24 V DC |
| Power consumption ±10% | 0.5 W | 0,5 W/1.0 VA | 0.5 W | 0.5 W |
| Status indication per relay (LED) | red | red | red | red |
| Output data | | | | |
| Contacts | 1 CO contact | 1 CO contact | 1 CO contact | 1 CO contact |
| Max. switching voltage | 250 V AC | 250 V AC | 250 V AC | 250 V AC |
| Max continuous current/inrush current | 16 A/25 A | 16 A/25 A | 16 A/25 A | 16 A/80 A (20 ms) |
| Max. power rating (ohmic load) | 4000 VA at 250 V AC, 16 A | 4000 VA at 250 V AC, 16 A | 4000 VA at 250 V AC, 16 A | 4000 VA at 250 V AC, 16 A |
| Typical response time/release time | 9 ms/7 ms | 15 ms/8 ms | 9 ms/7 ms | 9 ms/7 ms |
| Contact material | AgNi 90/10 | AgNi 90/10 | AgNi 90/10 | AgSnO 2 |
| Electrical life span at max. contact load | > 2 x 10 ⁵ | > 2 x 10 ⁵ | > 2 x 10 ⁵ | > 2 x 10 ⁵ |
| Mechanical life span | > 1 x 10 ⁷ | > 1 x 10 ⁷ | > 1 x 10 ⁷ | > 1 x 10 ⁷ |

Relay modules 1 CO RIM F

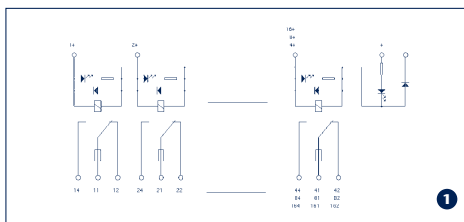
- Mount on TS 32/TS 35
- Screw connection
- Input side: suppression and reverse-polarity protection diode
- LED for indicating the switching status
- Relays available as solder-in or pluggable
- Relay modules with 1 CO and fuse in contact
- Other input and output voltages available on request

RIM F/1 W wtc Pluggable relay 1 CO contact

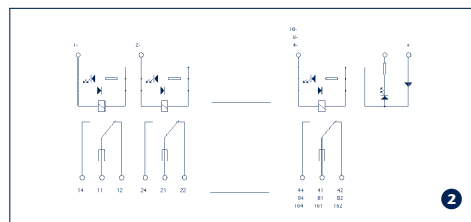
RIM F/1 W Soldered relay 1 CO contact



Circuit diagram



Circuit diagram



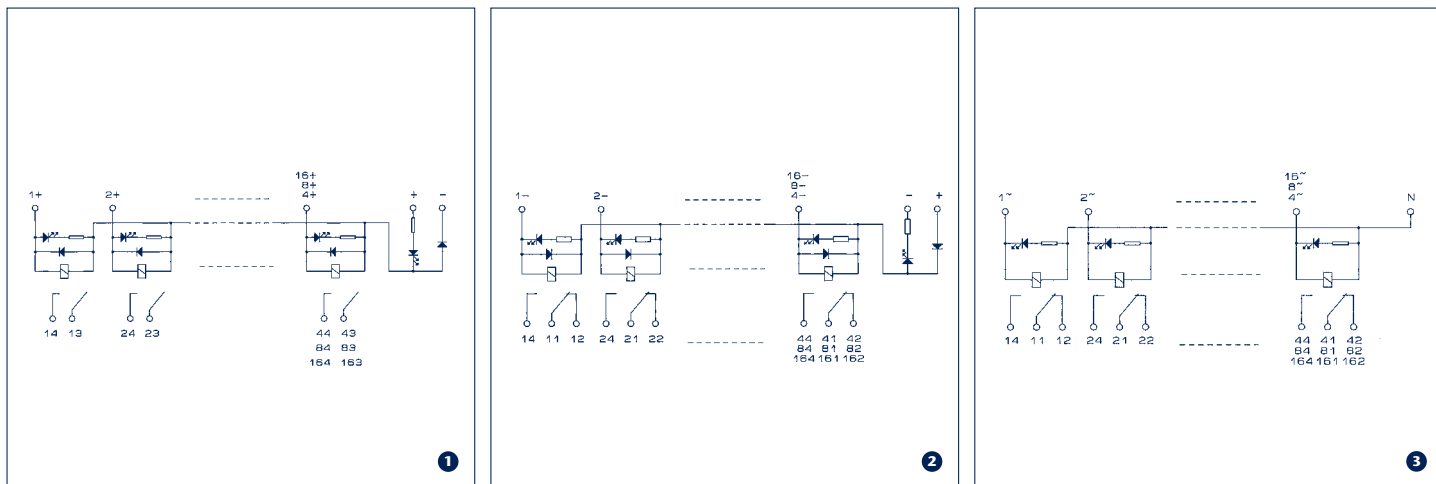
| Modules | Cat. no./Qty. p.pck. Pluggable relay | Type | Cat. no./Qty. p.pck. Soldered relay | Type | Circuit diagram | Size with TS (mm) LxBxH (TS 35) | Weight |
|--------------------|---|--|--|--|-----------------|--------------------------------------|----------------------------|
| 2 relays per 1 CO | 6199.2 /1 6200.2 /1 | RIM 2 F/1 W/24 V + RIM 2 F/1 W/24 V - | 6201.2 /1 6202.2 /1 | RIMD 2 F/1 W/24 V + RIMD 2 F/1 W/24 V - | 1 2 | 87 x 43 x 74/63 87 x 43 x 74/63 | 110 g/100 g 110 g/100 g |
| 4 relays per 1 CO | 6203.2 /1 6204.2 /1 | RIM 4 F/1 W/24 V + RIM 4 F/1 W/24 V - | 6205.2 /1 6206.2 /1 | RIMD 4 F/1 W/24 V + RIMD 4 F/1 W/24 V - | 1 2 | 87 x 78 x 74/63 87 x 78 x 74/63 | 200 g/180 g 200 g/180 g |
| 8 relays per 1 CO | 6207.2 /1 6208.2 /1 | RIM 8 F/1 W/24 V + RIM 8 F/1 W/24 V - | 6209.2 /1 6210.2 /1 | RIMD 8 F/1 W/24 V + RIMD 8 F/1 W/24 V - | 1 2 | 87 x 150 x 74/63 87 x 150 x 74/63 | 380 g/340 g 380 g/340 g |
| 16 relays per 1 CO | 6211.2 /1 6212.2 /1 | RIM 16 F/1 W/24 V + RIM 16 F/1 W/24 V - | 6213.2 /1 6214.2 /1 | RIMD 16 F/1 W/24 V + RIMD 16 F/1 W/24 V - | 1 2 | 87 x 294 x 74/63 87 x 294 x 74/63 | 730 g/650 g 730 g/650 g |

| Relay Contacts Design | Pluggable 1 CO contact Closed | Soldered 1 CO contact Closed |
|-----------------------------|--|------------------------------------|
| General information | | |
| DIN-VDE specifications | DIN EN 50178; DIN VDE 0110, pollution degree 2, overvoltage category III | |
| Test voltage coil/contact | 4 kV | 4 kV |
| Pinning | 5 mm | 5 mm |
| Operating temperature | -20 to +50°C | -20 to +50°C |
| Insulation stripping length | 7 mm | 7 mm |
| Connection cross-section | 0.2-2.5 mm ² /AWG 22-14 | 0.2-2.5 mm ² /AWG 22-14 |

| Relay data | | | |
|---|--|--|--|
| Input data | | | |
| Input voltage ±10% | 24 V DC | | |
| Power consumption ±10% | 0.6 W | | |
| Operating voltage indicator (LED) | green | | |
| Status indication per relay (LED) | red | | |
| Output data | | | |
| Contacts | 1 CO contact | | |
| Max. switching voltage | 250 V AC/DC | | |
| Max continuous current/inrush current | 6 A/8 A | | |
| Fuse | 6.3 A slow | | |
| Max. power rating (ohmic load) | 2000 VA at 250 V AC, 192 W at 24 V DC | | |
| Typical response time/release time | 9 ms/7 ms | | |
| Contact material | AgCdO | | |
| Electrical life span at max. contact load | > 1.5 x 10 ⁵ | | |
| Mechanical life span | > 1 x 10 ⁷ | | |

Relay modules 1 CO RIM

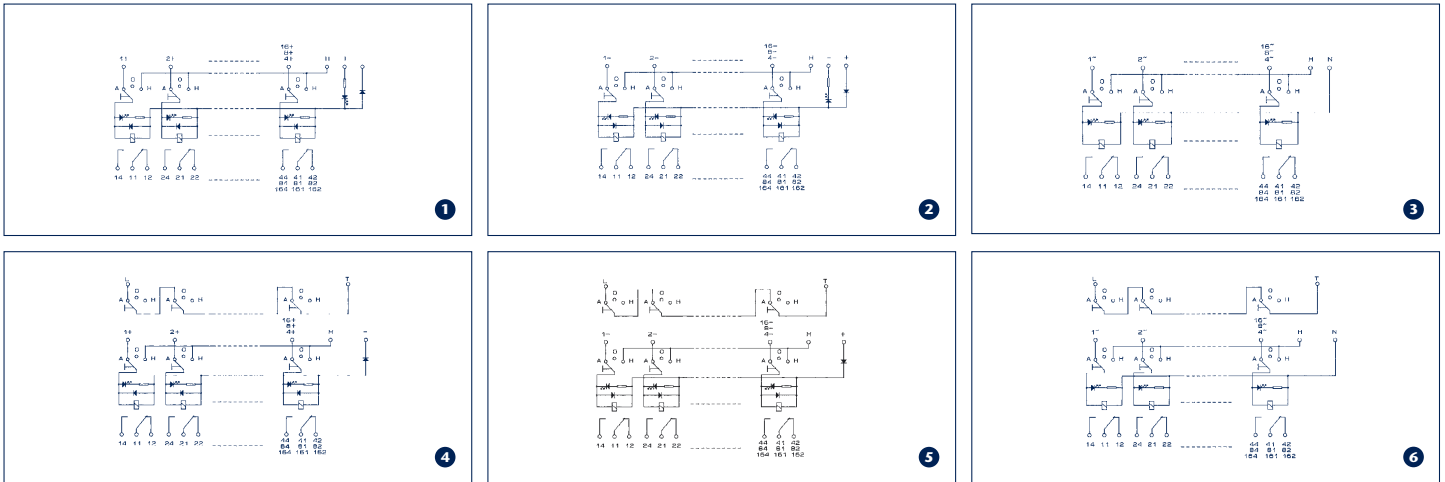
Circuit diagram



| Modules | Cat. no./Qty. p.pck. | Type | Cat. no./Qty. p.pck. | Type | Circuit diagram | Size (L x W x H) with TS 35 x 7.5 | Weight |
|--|----------------------|----------------|----------------------|------|------------------|-----------------------------------|--------|
| Pluggable relay | | Soldered relay | | | | | |
| Modules with 2 relays each with 1 CO contact | | | | | | | |
| 6021.2/1 | RIM 2/1 W/24 V + | 6030.2/1 | RIMD 2/1 W/24 V + | 1 | 87 x 41 x 66/57 | 100 g/90 g | |
| 6022.2/1 | RIM 2/1 W/24 V - | 6031.2/1 | RIMD 2/1 W/24 V - | 2 | 87 x 41 x 66/57 | 100 g/90 g | |
| 6023.2/1 | RIM 2/1 W/24 ACG | 6032.2/1 | RIMD 2/1 W/24 ACG | 3 | 87 x 41 x 66/57 | 100 g/90 g | |
| 6024.2/1 | RIM 2/1 W/48 V + | 6033.2/1 | RIMD 2/1 W/48 V + | 1 | 87 x 41 x 66/57 | 100 g/90 g | |
| 6025.2/1 | RIM 2/1 W/48 V - | 6034.2/1 | RIMD 2/1 W/48 V - | 2 | 87 x 41 x 66/57 | 100 g/90 g | |
| 6026.2/1 | RIM 2/1 W/115 V + | 6035.2/1 | RIMD 2/1 W/115 V + | 1 | 87 x 41 x 66/57 | 100 g/90 g | |
| 6027.2/1 | RIM 2/1 W/115 V - | 6036.2/1 | RIMD 2/1 W/115 V - | 2 | 87 x 41 x 66/57 | 100 g/90 g | |
| 6028.2/1 | RIM 2/1 W/115 ACG | 6037.2/1 | RIMD 2/1 W/115 ACG | 3 | 87 x 41 x 66/57 | 100 g/90 g | |
| 6029.2/1 | RIM 2/1 W/230 ACG | 6038.2/1 | RIMD 2/1 W/230 ACG | 3 | 87 x 41 x 66/57 | 100 g/90 g | |
| Modules with 4 relays each with 1 CO contact | | | | | | | |
| 6039.2/1 | RIM 4/1 W/24 V + | 6048.2/1 | RIMD 4/1 W/24 V + | 1 | 87 x 77 x 66/57 | 180 g/160 g | |
| 6040.2/1 | RIM 4/1 W/24 V - | 6049.2/1 | RIMD 4/1 W/24 V - | 2 | 87 x 77 x 66/57 | 180 g/160 g | |
| 6041.2/1 | RIM 4/1 W/24 ACG | 6050.2/1 | RIMD 4/1 W/24 ACG | 3 | 87 x 77 x 66/57 | 180 g/160 g | |
| 6042.2/1 | RIM 4/1 W/48 V + | 6051.2/1 | RIMD 4/1 W/48 V + | 1 | 87 x 77 x 66/57 | 180 g/160 g | |
| 6043.2/1 | RIM 4/1 W/48 V - | 6052.2/1 | RIMD 4/1 W/48 V - | 2 | 87 x 77 x 66/57 | 180 g/160 g | |
| 6044.2/1 | RIM 4/1 W/115 V + | 6053.2/1 | RIMD 4/1 W/115 V + | 1 | 87 x 77 x 66/57 | 180 g/160 g | |
| 6045.2/1 | RIM 4/1 W/115 V - | 6054.2/1 | RIMD 4/1 W/115 V - | 2 | 87 x 77 x 66/57 | 180 g/160 g | |
| 6046.2/1 | RIM 4/1 W/115 ACG | 6055.2/1 | RIMD 4/1 W/115 ACG | 3 | 87 x 77 x 66/57 | 180 g/160 g | |
| 6047.2/1 | RIM 4/1 W/230 ACG | 6056.2/1 | RIMD 4/1 W/230 ACG | 3 | 87 x 77 x 66/57 | 180 g/160 g | |
| Modules with 8 relays each with 1 CO contact | | | | | | | |
| 6057.2/1 | RIM 8/1 W/24 V + | 6066.2/1 | RIMD 8/1 W/24 V + | 1 | 87 x 148 x 66/57 | 340 g/300 g | |
| 6058.2/1 | RIM 8/1 W/24 V - | 6067.2/1 | RIMD 8/1 W/24 V - | 2 | 87 x 148 x 66/57 | 340 g/300 g | |
| 6059.2/1 | RIM 8/1 W/24 ACG | 6068.2/1 | RIMD 8/1 W/24 ACG | 3 | 87 x 148 x 66/57 | 340 g/300 g | |
| 6060.2/1 | RIM 8/1 W/48 V + | 6069.2/1 | RIMD 8/1 W/48 V + | 1 | 87 x 148 x 66/57 | 340 g/300 g | |
| 6061.2/1 | RIM 8/1 W/48 V - | 6070.2/1 | RIMD 8/1 W/48 V - | 2 | 87 x 148 x 66/57 | 340 g/300 g | |
| 6062.2/1 | RIM 8/1 W/115 V + | 6071.2/1 | RIMD 8/1 W/115 V + | 1 | 87 x 148 x 66/57 | 340 g/300 g | |
| 6063.2/1 | RIM 8/1 W/115 V - | 6072.2/1 | RIMD 8/1 W/115 V - | 2 | 87 x 148 x 66/57 | 340 g/300 g | |
| 6064.2/1 | RIM 8/1 W/115 ACG | 6073.2/1 | RIMD 8/1 W/115 ACG | 3 | 87 x 148 x 66/57 | 340 g/300 g | |
| 6065.2/1 | RIM 8/1 W/230 ACG | 6074.2/1 | RIMD 8/1 W/230 ACG | 3 | 87 x 148 x 66/57 | 340 g/300 g | |
| Modules with 16 relays each with 1 CO contact | | | | | | | |
| 6075.2/1 | RIM 16/1 W/24 V + | 6084.2/1 | RIMD 16/1 W/24 V + | 1 | 87 x 291 x 66/57 | 660 g/580 g | |
| 6076.2/1 | RIM 16/1 W/24 V - | 6085.2/1 | RIMD 16/1 W/24 V - | 2 | 87 x 291 x 66/57 | 660 g/580 g | |
| 6077.2/1 | RIM 16/1 W/24 ACG | 6086.2/1 | RIMD 16/1 W/24 ACG | 3 | 87 x 291 x 66/57 | 660 g/580 g | |
| 6078.2/1 | RIM 16/1 W/48 V + | 6087.2/1 | RIMD 16/1 W/48 V + | 1 | 87 x 291 x 66/57 | 660 g/580 g | |
| 6079.2/1 | RIM 16/1 W/48 V - | 6088.2/1 | RIMD 16/1 W/48 V - | 2 | 87 x 291 x 66/57 | 660 g/580 g | |
| 6080.2/1 | RIM 16/1 W/115 V + | 6089.2/1 | RIMD 16/1 W/115 V + | 1 | 87 x 291 x 66/57 | 660 g/580 g | |
| 6081.2/1 | RIM 16/1 W/115 V - | 6090.2/1 | RIMD 16/1 W/115 V - | 2 | 87 x 291 x 66/57 | 660 g/580 g | |
| 6082.2/1 | RIM 16/1 W/115 ACG | 6091.2/1 | RIMD 16/1 W/115 ACG | 3 | 87 x 291 x 66/57 | 660 g/580 g | |
| 6083.2/1 | RIM 16/1 W/230 ACG | 6092.2/1 | RIMD 16/1 W/230 ACG | 3 | 87 x 291 x 66/57 | 660 g/580 g | |

Relay modules 1 CO contact RIM S

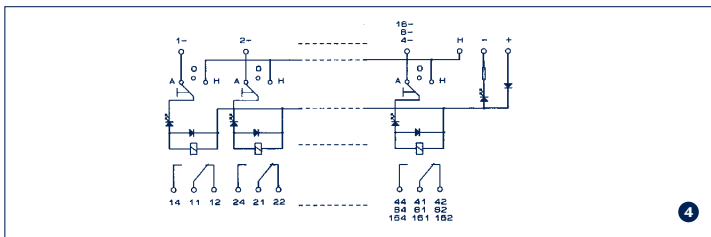
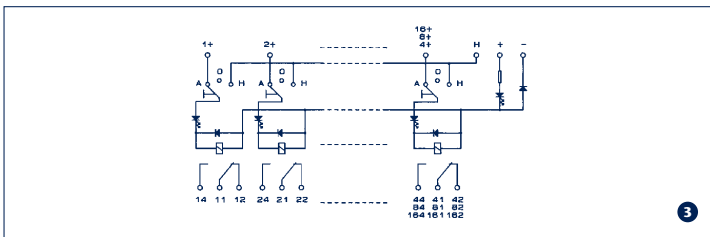
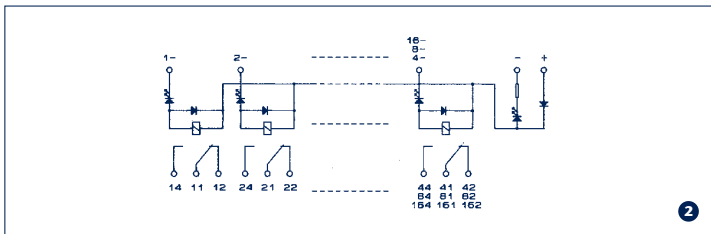
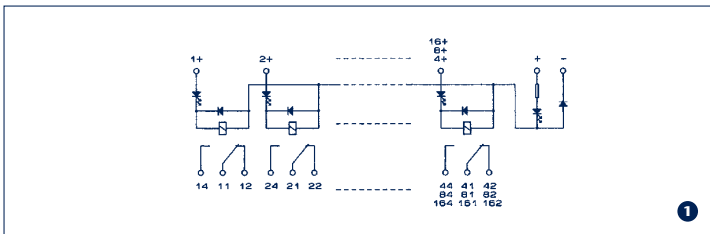
Circuit diagram



| Modules | Cat. no./Qty. p.pck. | Type | Cat. no./Qty. p.pck. | Type | Circuit diagram | Size (L x W x H) with TS 35 x 7.5 | Weight |
|--|----------------------|------------------------|----------------------|-------------------------|-----------------|-----------------------------------|-------------|
| Pluggable relay | | Soldered relay | | | | | |
| Modules with 2 relays each with 1 CO contact | | | | | | | |
| | 5900.3/1 | RIM 2 S/1 W/24 V + | 5902.3/1 | RIMD 2 S/1 W/24 V + | 1 | 87 x 44 x 74 | 115 g/105 g |
| | 5901.3/1 | RIM 2 S/1 W/24 V - | 5903.3/1 | RIMD 2 S/1 W/24 V - | 2 | 87 x 44 x 74 | 115 g/105 g |
| | 6588.2/1 | RIM 2 S/1 W/24 ACG | 6589.2/1 | RIMD 2 S/1 W/24 ACG | 3 | 87 x 44 x 74 | 115 g/105 g |
| | 6590.2/1 | RIM 2 S/1 W/230 ACG | 6591.2/1 | RIMD 2 S/1 W/230 ACG | 3 | 87 x 44 x 74 | 115 g/105 g |
| | 6606.2/1 | RIM 2-2 S/1 W/24 + | 6607.2/1 | RIMD 2-2 S/1 W/24 + | 4 | 87 x 44 x 74 | 115 g/105 g |
| | 6608.2/1 | RIM 2-2 S/1 W/24 - | 6609.2/1 | RIMD 2-2 S/1 W/24 - | 5 | 87 x 44 x 74 | 115 g/105 g |
| | 6610.2/1 | RIM 2-2 S/1 W/24 ACG | 6611.2/1 | RIMD 2-2 S/1 W/24 ACG | 6 | 87 x 44 x 74 | 115 g/105 g |
| | 6612.2/1 | RIM 2-2 S/1 W/230 ACG | 6613.2/1 | RIMD 2-2 S/1 W/230 ACG | 6 | 87 x 44 x 74 | 115 g/105 g |
| Modules with 4 relays each with 1 CO contact | | | | | | | |
| | 5904.3/1 | RIM 4 S/1 W/24 V + | 5906.3/1 | RIMD 4 S/1 W/24 V + | 1 | 87 x 78 x 74 | 195 g/175 g |
| | 5905.3/1 | RIM 4 S/1 W/24 V - | 5907.3/1 | RIMD 4 S/1 W/24 V - | 2 | 87 x 78 x 74 | 195 g/175 g |
| | 6592.2/1 | RIM 4 S/1 W/24 ACG | 6593.2/1 | RIMD 4 S/1 W/24 ACG | 3 | 87 x 78 x 74 | 195 g/175 g |
| | 6594.2/1 | RIM 4 S/1 W/230 ACG | 6595.2/1 | RIMD 4 S/1 W/230 ACG | 3 | 87 x 78 x 74 | 195 g/175 g |
| | 6614.2/1 | RIM 4-2 S/1 W/24 + | 6615.2/1 | RIMD 4-2 S/1 W/24 + | 4 | 87 x 78 x 74 | 195 g/175 g |
| | 6616.2/1 | RIM 4-2 S/1 W/24 - | 6617.2/1 | RIMD 4-2 S/1 W/24 - | 5 | 87 x 78 x 74 | 195 g/175 g |
| | 6618.2/1 | RIM 4-2 S/1 W/24 ACG | 6619.2/1 | RIMD 4-2 S/1 W/24 ACG | 6 | 87 x 78 x 74 | 195 g/175 g |
| | 6620.2/1 | RIM 4-2 S/1 W/230 ACG | 6621.2/1 | RIMD 4-2 S/1 W/230 ACG | 6 | 87 x 78 x 74 | 195 g/175 g |
| Modules with 8 relays each with 1 CO contact | | | | | | | |
| | 5908.3/1 | RIM 8 S/1 W/24 V + | 5910.3/1 | RIMD 8 S/1 W/24 V + | 1 | 87 x 150 x 74 | 365 g/325 g |
| | 5909.3/1 | RIM 8 S/1 W/24 V - | 5911.3/1 | RIMD 8 S/1 W/24 V - | 2 | 87 x 150 x 74 | 365 g/325 g |
| | 6596.2/1 | RIM 8 S/1 W/24 ACG | 6597.2/1 | RIMD 8 S/1 W/24 ACG | 3 | 87 x 150 x 74 | 365 g/325 g |
| | 6598.2/1 | RIM 8 S/1 W/230 ACG | 6599.2/1 | RIMD 8 S/1 W/230 ACG | 3 | 87 x 150 x 74 | 365 g/325 g |
| | 6622.2/1 | RIM 8-2 S/1 W/24 + | 6623.2/1 | RIMD 8-2 S/1 W/24 + | 4 | 87 x 150 x 74 | 365 g/325 g |
| | 6624.2/1 | RIM 8-2 S/1 W/24 - | 6625.2/1 | RIMD 8-2 S/1 W/24 - | 5 | 87 x 150 x 74 | 365 g/325 g |
| | 6626.2/1 | RIM 8-2 S/1 W/24 ACG | 6627.2/1 | RIMD 8-2 S/1 W/24 ACG | 6 | 87 x 150 x 74 | 365 g/325 g |
| | 6628.2/1 | RIM 8-2 S/1 W/230 ACG | 6629.2/1 | RIMD 8-2 S/1 W/230 ACG | 6 | 87 x 150 x 74 | 365 g/325 g |
| Modules with 16 relays each with 1 CO contact | | | | | | | |
| | 6600.2/1 | RIM 16 S/1 W/24 V + | 6601.2/1 | RIMD 16 S/1 W/24 V + | 1 | 87 x 292 x 74 | 715 g/635 g |
| | 6602.2/1 | RIM 16 S/1 W/24 V - | 6603.2/1 | RIMD 16 S/1 W/24 V - | 2 | 87 x 292 x 74 | 715 g/635 g |
| | 6604.2/1 | RIM 16 S/1 W/24 ACG | 6605.2/1 | RIMD 16 S/1 W/24 ACG | 3 | 87 x 292 x 74 | 715 g/635 g |
| | 6630.2/1 | RIM 16 S/1 W/230 ACG | 6631.2/1 | RIMD 16 S/1 W/230 ACG | 3 | 87 x 292 x 74 | 715 g/635 g |
| | 6632.2/1 | RIM 16-2 S/1 W/24 + | 6633.2/1 | RIMD 16-2 S/1 W/24 + | 4 | 87 x 292 x 74 | 715 g/635 g |
| | 6634.2/1 | RIM 16-2 S/1 W/24 - | 6635.2/1 | RIMD 16-2 S/1 W/24 - | 5 | 87 x 292 x 74 | 715 g/635 g |
| | 6636.2/1 | RIM 16-2 S/1 W/24 ACG | 6637.2/1 | RIMD 16-2 S/1 W/24 ACG | 6 | 87 x 292 x 74 | 715 g/635 g |
| | 6638.2/1 | RIM 16-2 S/1 W/230 ACG | 6639.2/1 | RIMD 16-2 S/1 W/230 ACG | 6 | 87 x 292 x 74 | 715 g/635 g |

Relay modules 1 CO contact RIM-16 A

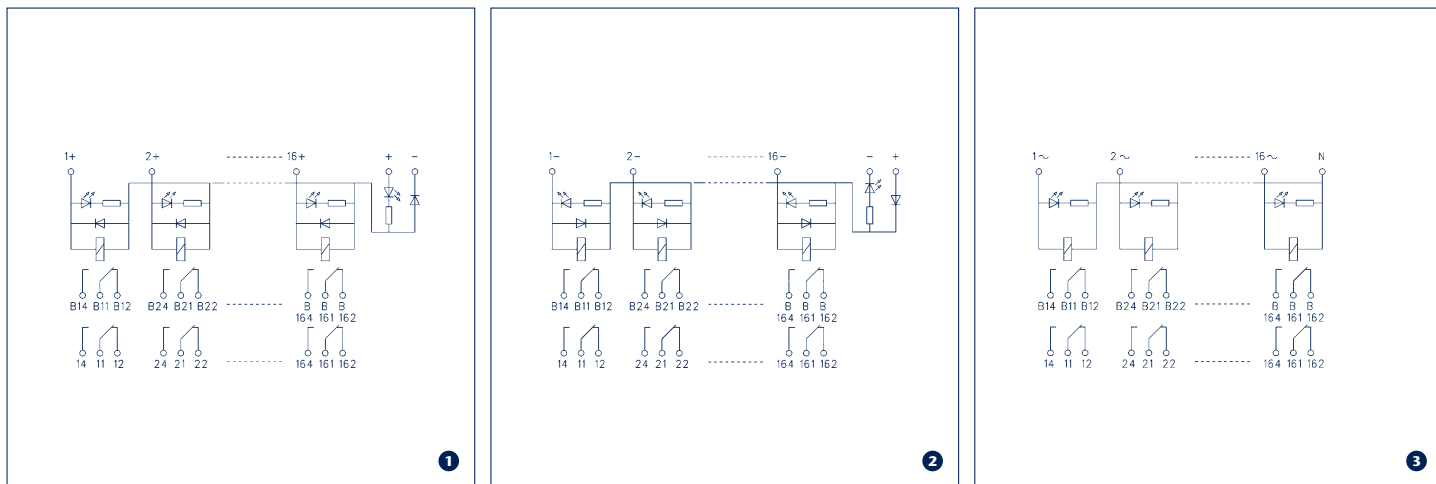
Circuit diagram



| Modules | Cat. no./Qty. p.pck. | Type | Cat. no./Qty. p.pck. | Type | Circuit diagram | Size (L x W x H) with TS 35 x 7.5 | Weight |
|--|--------------------------|-----------------|---------------------------|------|-----------------|-----------------------------------|--------|
| Pluggable relay | | Soldered relay | | | | | |
| Modules with 2 relays each with 1 CO contact | | | | | | | |
| 6016.2/1 | RIM 2-16 A/1 W/24 V + | 6648.2/1 | RIMD 2-16 A/1 W/24 V + | 1 | 87 x 42 x 74 | 100 g/90 g | |
| 6640.2/1 | RIM 2-16 A/1 W/24 V - | 6649.2/1 | RIMD 2-16 A/1 W/24 V - | 2 | 87 x 42 x 74 | 100 g/90 g | |
| 6017.2/1 | RIM 2 S-16 A/1 W/24 V + | 6650.2/1 | RIMD 2 S-16 A/1 W/24 V + | 3 | 87 x 42 x 74 | 110 g/100 g | |
| 6641.2/1 | RIM 2 S-16 A/1 W/24 V - | 6651.2/1 | RIMD 2 S-16 A/1 W/24 V - | 4 | 87 x 42 x 74 | 110 g/100 g | |
| Modules with 4 relays each with 1 CO contact | | | | | | | |
| 6018.2/1 | RIM 4-16 A/1 W/24 V + | 6652.2/1 | RIMD 4-16 A/1 W/24 V + | 1 | 87 x 77 x 74 | 180 g/160 g | |
| 6642.2/1 | RIM 4-16 A/1 W/24 V - | 6653.2/1 | RIMD 4-16 A/1 W/24 V - | 2 | 87 x 77 x 74 | 180 g/160 g | |
| 6019.2/1 | RIM 4 S-16 A/1 W/24 V + | 6654.2/1 | RIMD 4 S-16 A/1 W/24 V + | 3 | 87 x 77 x 74 | 200 g/180 g | |
| 6643.2/1 | RIM 4 S-16 A/1 W/24 V - | 6655.2/1 | RIMD 4 S-16 A/1 W/24 V - | 4 | 87 x 77 x 74 | 200 g/180 g | |
| Modules with 8 relays each with 1 CO contact | | | | | | | |
| 6012.2/1 | RIM 8-16 A/1 W/24 V + | 6656.2/1 | RIMD 8-16 A/1 W/24 V + | 1 | 87 x 148 x 74 | 340 g/300 g | |
| 6644.2/1 | RIM 8-16 A/1 W/24 V - | 6657.2/1 | RIMD 8-16 A/1 W/24 V - | 2 | 87 x 148 x 74 | 340 g/300 g | |
| 6013.2/1 | RIM 8 S-16 A/1 W/24 V + | 6658.2/1 | RIMD 8 S-16 A/1 W/24 V + | 3 | 87 x 148 x 74 | 380 g/340 g | |
| 6645.2/1 | RIM 8 S-16 A/1 W/24 V - | 6659.2/1 | RIMD 8 S-16 A/1 W/24 V - | 4 | 87 x 148 x 74 | 380 g/340 g | |
| Modules with 16 relays each with 1 CO contact | | | | | | | |
| 6014.2/1 | RIM 16-16 A/1 W/24 V + | 6660.2/1 | RIMD 16-16 A/1 W/24 V + | 1 | 87 x 290 x 74 | 660 g/580 g | |
| 6646.2/1 | RIM 16-16 A/1 W/24 V - | 6661.2/1 | RIMD 16-16 A/1 W/24 V - | 2 | 87 x 290 x 74 | 660 g/580 g | |
| 6015.2/1 | RIM 16 S-16 A/1 W/24 V + | 6662.2/1 | RIMD 16 S-16 A/1 W/24 V + | 3 | 87 x 290 x 74 | 740 g/660 g | |
| 6647.2/1 | RIM 16 S-16 A/1 W/24 V - | 6663.2/1 | RIMD 16 S-16 A/1 W/24 V - | 4 | 87 x 290 x 74 | 740 g/660 g | |

Relay modules 2 CO contact RIM

Circuit diagram



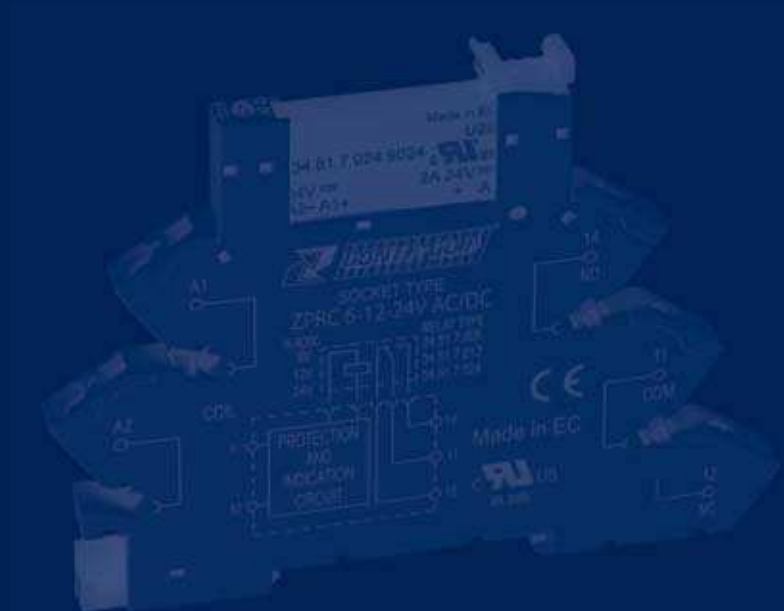
| Modules | Cat. no./Qty. p.pck. | Type | Cat. no./Qty. p.pck. | Type | Circuit diagram | Size (L x W x H) with TS 35 x 7.5 | Weight |
|--|----------------------|--------------------|----------------------|---------------------|-----------------|-----------------------------------|-------------|
| Modules with 2 relays each with 2 CO contact | | | | | | | |
| | 5566.2/1 | RIM 2/2 W/24 V + | 5567.2/1 | RIMD 2/2 W/24 V + | 1 | 87 x 44 x 72 | 120 g/110 g |
| | 5568.2/1 | RIM 2/2 W/24 V - | 5569.2/1 | RIMD 2/2 W/24 V - | 2 | 87 x 44 x 72 | 120 g/110 g |
| | 5658.2/1 | RIM 2/2 W/24 ACG | 5659.2/1 | RIMD 2/2 W/24 ACG | 3 | 87 x 44 x 72 | 120 g/110 g |
| | 5570.2/1 | RIM 2/2 W/48 V + | 5571.2/1 | RIMD 2/2 W/48 V + | 1 | 87 x 44 x 72 | 120 g/110 g |
| | 5572.2/1 | RIM 2/2 W/48 V - | 5573.2/1 | RIMD 2/2 W/48 V - | 2 | 87 x 44 x 72 | 120 g/110 g |
| | 5662.2/1 | RIM 2/2 W/115 V + | 5663.2/1 | RIMD 2/2 W/115 V + | 1 | 87 x 44 x 72 | 120 g/110 g |
| | 5664.2/1 | RIM 2/2 W/115 V - | 5665.2/1 | RIMD 2/2 W/115 V - | 2 | 87 x 44 x 72 | 120 g/110 g |
| | 5578.2/1 | RIM 2/2 W/115 ACG | 5579.2/1 | RIMD 2/2 W/115 ACG | 3 | 87 x 44 x 72 | 120 g/110 g |
| | 5580.2/1 | RIM 2/2 W/230 ACG | 5581.2/1 | RIMD 2/2 W/230 ACG | 3 | 87 x 44 x 72 | 120 g/110 g |
| Modules with 4 relays each with 2 CO contact | | | | | | | |
| | 5582.2/1 | RIM 4/2 W/24 V + | 5583.2/1 | RIMD 4/2 W/24 V + | 1 | 87 x 80 x 72 | 202 g/182 g |
| | 5584.2/1 | RIM 4/2 W/24 V - | 5585.2/1 | RIMD 4/2 W/24 V - | 2 | 87 x 80 x 72 | 202 g/182 g |
| | 5668.2/1 | RIM 4/2 W/24 ACG | 5669.2/1 | RIMD 4/2 W/24 ACG | 3 | 87 x 80 x 72 | 202 g/182 g |
| | 5586.2/1 | RIM 4/2 W/48 V + | 5587.2/1 | RIMD 4/2 W/48 V + | 1 | 87 x 80 x 72 | 202 g/182 g |
| | 5588.2/1 | RIM 4/2 W/48 V - | 5589.2/1 | RIMD 4/2 W/48 V - | 2 | 87 x 80 x 72 | 202 g/182 g |
| | 5672.2/1 | RIM 4/2 W/115 V + | 5673.2/1 | RIMD 4/2 W/115 V + | 1 | 87 x 80 x 72 | 202 g/182 g |
| | 5674.2/1 | RIM 4/2 W/115 V - | 5675.2/1 | RIMD 4/2 W/115 V - | 2 | 87 x 80 x 72 | 202 g/182 g |
| | 5594.2/1 | RIM 4/2 W/115 ACG | 5595.2/1 | RIMD 4/2 W/115 ACG | 3 | 87 x 80 x 72 | 202 g/182 g |
| | 5596.2/1 | RIM 4/2 W/230 ACG | 5597.2/1 | RIMD 4/2 W/230 ACG | 3 | 87 x 80 x 72 | 202 g/182 g |
| Modules with 8 relays each with 2 CO contact | | | | | | | |
| | 6155.2/1 | RIM 8/2 W/24 V + | 6156.2/1 | RIMD 8/2 W/24 V + | 1 | 87 x 151 x 72 | 392 g/352 g |
| | 6157.2/1 | RIM 8/2 W/24 V - | 6158.2/1 | RIMD 8/2 W/24 V - | 2 | 87 x 151 x 72 | 392 g/352 g |
| | 6159.2/1 | RIM 8/2 W/24 ACG | 6160.2/1 | RIMD 8/2 W/24 ACG | 3 | 87 x 151 x 72 | 392 g/352 g |
| | 6161.2/1 | RIM 8/2 W/48 V + | 6162.2/1 | RIMD 8/2 W/48 V + | 1 | 87 x 151 x 72 | 392 g/352 g |
| | 6163.2/1 | RIM 8/2 W/48 V - | 6164.2/1 | RIMD 8/2 W/48 V - | 2 | 87 x 151 x 72 | 392 g/352 g |
| | 6165.2/1 | RIM 8/2 W/115 V + | 6166.2/1 | RIMD 8/2 W/115 V + | 1 | 87 x 151 x 72 | 392 g/352 g |
| | 6167.2/1 | RIM 8/2 W/115 V - | 6168.2/1 | RIMD 8/2 W/115 V - | 2 | 87 x 151 x 72 | 392 g/352 g |
| | 6169.2/1 | RIM 8/2 W/115 ACG | 6170.2/1 | RIMD 8/2 W/115 ACG | 3 | 87 x 151 x 72 | 392 g/352 g |
| | 6171.2/1 | RIM 8/2 W/230 ACG | 6172.2/1 | RIMD 8/2 W/230 ACG | 3 | 87 x 151 x 72 | 392 g/352 g |
| Modules with 16 relays each with 2 CO contact | | | | | | | |
| | 6173.2/1 | RIM 16/2 W/24 V + | 6174.2/1 | RIMD 16/2 W/24 V + | 1 | 87 x 293 x 72 | 764 g/684 g |
| | 6175.2/1 | RIM 16/2 W/24 V - | 6176.2/1 | RIMD 16/2 W/24 V - | 2 | 87 x 293 x 72 | 764 g/684 g |
| | 6177.2/1 | RIM 16/2 W/24 ACG | 6178.2/1 | RIMD 16/2 W/24 ACG | 3 | 87 x 293 x 72 | 764 g/684 g |
| | 6179.2/1 | RIM 16/2 W/48 V + | 6180.2/1 | RIMD 16/2 W/48 V + | 1 | 87 x 293 x 72 | 764 g/684 g |
| | 6181.2/1 | RIM 16/2 W/48 V - | 6182.2/1 | RIMD 16/2 W/48 V - | 2 | 87 x 293 x 72 | 764 g/684 g |
| | 6183.2/1 | RIM 16/2 W/115 V + | 6184.2/1 | RIMD 16/2 W/115 V + | 1 | 87 x 293 x 72 | 764 g/684 g |
| | 6185.2/1 | RIM 16/2 W/115 V - | 6186.2/1 | RIMD 16/2 W/115 V - | 2 | 87 x 293 x 72 | 764 g/684 g |
| | 6187.2/1 | RIM 16/2 W/115 ACG | 6188.2/1 | RIMD 16/2 W/115 ACG | 3 | 87 x 293 x 72 | 764 g/684 g |
| | 6189.2/1 | RIM 16/2 W/230 ACG | 6190.2/1 | RIMD 16/2 W/230 ACG | 3 | 87 x 293 x 72 | 764 g/684 g |

Opto-couplers

The unambiguous and secure separation of potentials in the different data and control signals - this is important for the trouble-free functioning of equipment and production facilities. The opto-coupler is to an increasing degree responsible for the coupling between sensor and controls, or controls and actuators.

The opto-coupler offers several other advantages over mechanical relay couplers, in addition to the electrical isolation of input and output circuits. This includes a high switching frequency, a high repetition accuracy, a long life span, and resistance to shock.

CONTA-CLIP offers opto-couplers in a variety of voltages and power ranges. In order to suit industrial applications, these modules and components are provided with the appropriate protective input circuitry.





Solid-state compact PSC

The **PSC** solid-state compact distinguishes itself by its compact shape in the terminal block design. Thanks to their thin form (6.2 mm) and a switchable continuous current of 2 amps, these solid-state modules can be integrated into a mounted-rail control design where space is tight. And owing to their features of secure electrical isolation of circuits and the multiplication of contacts, these modules are well-suited for use in automation engineering. The solid-state components offer a total of 8 varieties, including screw and tension-spring, and are available with input voltages from 24 to 60 VDC and 240 VAC. With the AQI cross-connection system, mutual potentials can be carried out over the coil or contact sides. Excellent equipment identification is possible since the socket base has a labelling surface for the standard PMC BSTR 6/30 marking system.

CONTA-CLIP also offers a customer-specific labelling service, in addition to the standard marking.



Opto-coupler modules OKI

The **OKI** opto-coupler modules are available with either four or eight switching channels, suitable for varying input voltage types. For input-side DC voltage, you can choose between a high-level switched version or a low-level switched version, where the individual channels can be switched and combined separately.

For AC voltage, versions for 24 V and 230 V are available. They have an additional screw-on hood which guarantees protection against direct touch.

The adjoining output voltage can be between 5 and 48 V. The maximum output current can be up to 100 mA. An LED showing the actual switching status is available for each channel. The standard maximum transmission frequency is 100 Hz. Modules with higher transmission frequencies are available upon request.



The SSR and SSOIF-base solid state relays

The **Opto 22** solid-state relay modules feature excellent handling characteristics and a high power rating. Individual modules can be replaced and combined together.

The modules are suitable for particularly high output current levels of up to 3 A. Short-term current surges may reach up to 5 A, and yet the electrical isolation from the input side is still ensured.

The opto-coupler can simply be inserted onto the **SSOIF** base system, and it is then attached. Depending on the version, between 1 and 16 such modules can be attached side by side.

For their protection, the opto-couplers use an integrated safety fuse, which can be easily twisted out and replaced. The switching status is also displayed with an integrated LED. The **SSOIF** base can be mounted on the standard TS 32 and TS 35 mounting rail systems.

Solid-state compact PSC

Solid-state terminals

1. Overview

a Labelling | Marking
The socket bases have a labelling surface which is optimally suited for our **PMC Pocket-Maxicard** standard marking systems. In addition to our large variety of standard labels, **CONTA-CLIP** can also provide "just-in-time" individual labelling for you.



b Using the mount/dismount lever
The mounting and dismounting mechanism forms a reliable connection by latching the relay with the socket base. The fitted relay can be removed, easily and without force, from the socket base by using the dismount function of the lever!



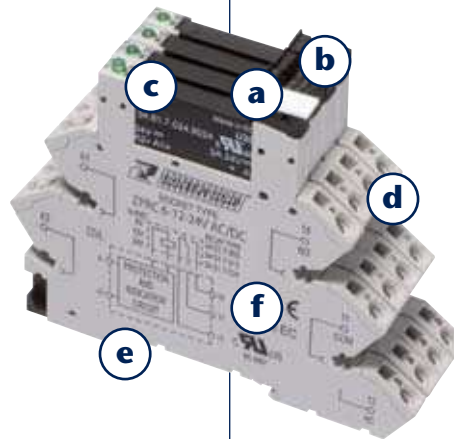
c Pluggable solid-state modules
Solid-state modules are also available with various input and output voltages to fit your individual requirements!



Converting switching relays to solid-state modules

Relay terminals can be later converted to solid-state terminal, in cases of high expected electrical life spans and in order to avoid the influence of contact-material migration (with DC).

| Socket base | Input | Output | Solid-state relays |
|------------------|---------|------------|-------------------------|
| ZPRC 6-12-24V DC | 24V DC | 2A 24V DC | PSC 1/24V/DC-24V/2A/DC |
| ZPRC 60V DC | 60V DC | 2A 24V DC | PSC 1/60V/DC-24V/2A/DC |
| ZPRC 230V AC | 230V AC | 2A 24V DC | PSC 1/60V/DC-24V/2A/DC |
| ZPRC LW 230V AC | 230V AC | 2A 24V DC | PSC 1/60V/DC-24V/2A/DC |
| ZPRC 6-12-24V DC | 24V DC | 2A 230V AC | PSC 1/24V/DC-240V/2A/AC |
| ZPRC 60V DC | 60V DC | 2A 230V AC | PSC 1/60V/DC-240V/2A/AC |
| ZPRC 230V AC | 230V AC | 2A 230V AC | PSC 1/60V/DC-240V/2A/AC |
| ZPRC LW 230V AC | 230V AC | 2A 230V AC | PSC 1/60V/DC-240V/2A/AC |
| PRC 6-12-24V DC | 24V DC | 2A 24V DC | PSC 1/24V/DC-24V/2A/DC |
| PRC 60V DC | 60V DC | 2A 24V DC | PSC 1/60V/DC-24V/2A/DC |
| PRC 230V AC | 230V AC | 2A 24V DC | PSC 1/60V/DC-24V/2A/DC |
| PRC LW 230V AC | 230V AC | 2A 24V DC | PSC 1/60V/DC-24V/2A/DC |
| PRC 6-12-24V DC | 24V DC | 2A 230V AC | PSC 1/24V/DC-240V/2A/AC |
| PRC 60V DC | 60V DC | 2A 230V AC | PSC 1/60V/DC-240V/2A/AC |
| PRC 230V AC | 230V AC | 2A 230V AC | PSC 1/60V/DC-240V/2A/AC |
| PRC LW 230V AC | 230V AC | 2A 230V AC | PSC 1/60V/DC-240V/2A/AC |



d Pluggable external cross-connections
The AQI/PRC pluggable cross-connection system enables a time-saving distribution of potentials. The AQI/PRC is constructed so that it is protected against accidental touch. It is available as a 20-pole unit, in either yellow, blue or black. The cross-connector can be shortened to fewer poles in order to fit the required interface. Insulation plating can be used to insulate the ends.



e Mounts on standard TS 35 rail
CONTA-CLIP relay terminals can be flexibly mounted on standard TS 35 mounting rails, according to EN 50035 and EN 50022.

f Connection types
All of our relay terminals are optionally available with screw or tension-spring connection systems.



2. Approvals (Details upon request.)



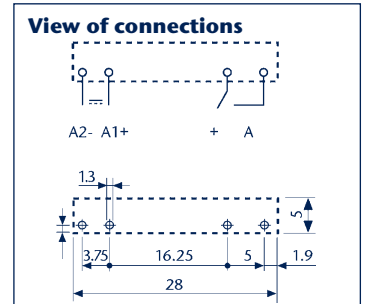
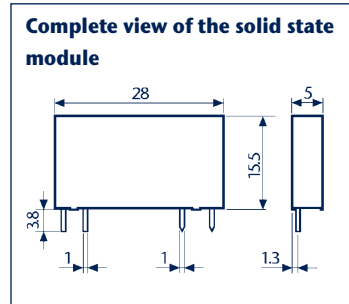
Solid-state compact PSC

Solid-state terminals

3. Features

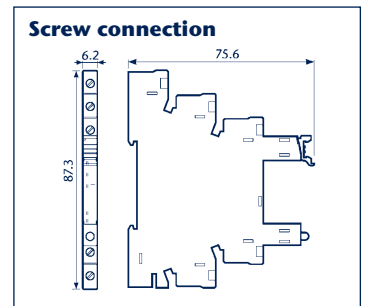
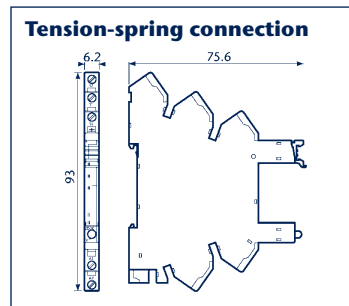
I. Solid-state module

- 5 mm width, very thin solid-state module, semi-conductor relay
- For DC or AC loads, without contact-material erosion
- For high numbers of switching cycles



II. Socket base

- Mount on TS 35
- Very flexible and modular construction of individual solid-state module base
- User-friendly, because the solid-state modules can be easily replaced
- High-quality connecting terminals (tension-spring or screw connection system)
- Integrated EMC input circuitry, and LED
- High-quality innovative mount/dismount lever
- All versions are optionally available with screw or tension-spring connection system



4. Specifications

Opto-coupler, semi-conductor relay, SSR

Additional data

| | | |
|--------------------------|---------------------------|--|
| Ambient heat dissipation | without output current W | 0.2... 0.5 at ZPRCU LW 1/240 V DC and PRCU LW 1/240 V DC |
| | at rated output current W | 0.4... 0.9 at ZPRCU LW 1/240 V DC and PRCU LW 1/240 V DC |

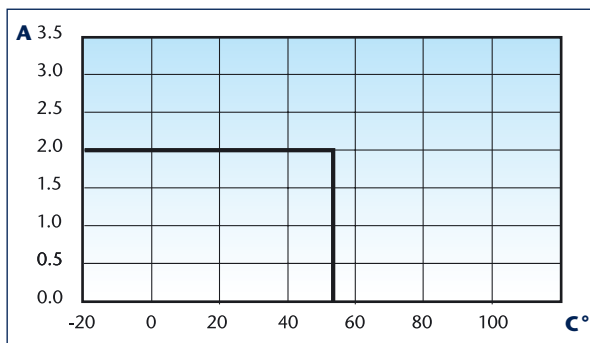
5. Input specification

DC version

| Rated voltage U_N V | Input code | Operating range U_{min} V U_{max} V | | Drop-out voltage U V | Rated current I mA | Power rating P W |
|-----------------------------|------------|--|-----|----------------------------|--------------------------|------------------------|
| 24 | – | 16,8 | 30 | 10 | 10,5 | – |
| 230... 240 AC | – | 184 | 264 | 72 | 5.6 (*) | 0.5 (*) |

* Rated current and power at $U_N = 240$ V.

6. Output specification



Continuous current, dependent on the ambient temperature. SSR with 2 A, DC or AC

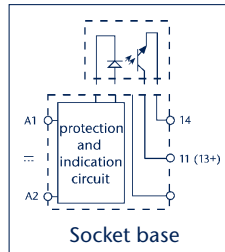
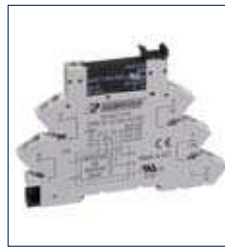
Solid-state compact PSC

Solid-state terminals, tension-spring con-

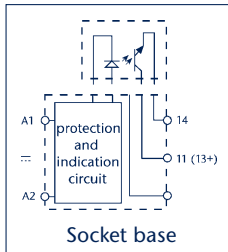
- consisting of:
 - A basic terminal and a pluggable solid state module
 - Mount on TS 35

- Internal EMC coil circuitry and LED display

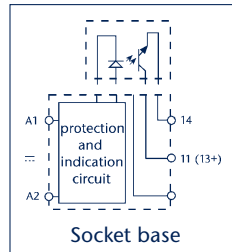
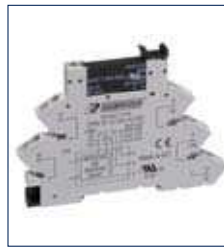
ZPSCU 1/24 V DC/24 V DC



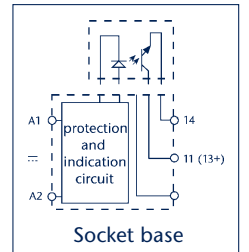
ZPSCU 1/24 V DC/240 V AC



ZPSCU 1/240 V AC/24 V DC



ZPSCU 1/240 V AC/240 V AC



| Type | ZPSCU 1/24 V DC/24 V DC | ZPSCU 1/24 V DC/240 V DC | ZPSCU 1/240 V AC/24 V DC | ZPSCU 1/240 V AC/240 V AC |
|---|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Cat. no./Qty. p.pck. Type/Colour grey (RAL 7032) | 15534.2/10 | 15533.2/10 | 15543.2/10 | 15535.2/10 |
| Size (L x W x H) with TS 35 x 7.5 | 93 x 6.2 x 79.9 mm | 93 x 6.2 x 79.9 mm | 93 x 6.2 x 79.9 mm | 93 x 6.2 x 79.9 mm |
| Weight | 36 g | 36 g | 36 g | 36 g |
| Rated operating voltage | 24 V DC | 24 V DC | 230 V AC | 230 V AC |
| General information | | | | |
| Response time/Release time | 0.1/0.4 ms | 12/12 ms | 0.1/0.4 ms | 12/12 ms |
| Dielectric strength of control/load circuit | 2,500 V | 2,500 V | 2,500 V | 2,500 V |
| Ambient temperature | -20 to +55 °C | -20 to +55 °C | -20 to +55 °C | -20 to +55 °C |
| Relay protection type | RT III | RT III | RT III | RT III |
| Ratings for socket base | | | | |
| Ambient temperature | -20 to +55 °C | -20 to +55 °C | -20 to +55 °C | -20 to +55 °C |
| Insulation stripping length | 10 mm | 10 mm | 10 mm | 10 mm |
| Max. connection cross-section, solid flexible | 1 x 2.5/2 x 1.5 1 x 2.5/2 x 1.5 | 1 x 2.5/2 x 1.5 1 x 2.5/2 x 1.5 | 1 x 2.5/2 x 1.5 1 x 2.5/2 x 1.5 | 1 x 2.5/2 x 1.5 1 x 2.5/2 x 1.5 |
| | 1 x 14/2 x 16 1 x 14/2 x 16 | 1 x 14/2 x 16 1 x 14/2 x 16 | 1 x 14/2 x 16 1 x 14/2 x 16 | 1 x 14/2 x 16 1 x 14/2 x 16 |
| | mm ² | | | |
| | AWG | | | |
| Input circuit | | | | |
| Rated voltage | 24 V DC | 24 V DC | 230 V DC | 230 V DC |
| Power rating | 0.2 W | 0.2 W | 0.9 W | 0.9 W |
| Operating range | 16 to 30 V DC | 16 to 30 V DC | 184 to 264 V DC | 184 to 264 V DC |
| Control current | 10.5 mA DC | 10.5 mA DC | 5.6 mA DC | 5.6 mA DC |
| Drop-out voltage | 10 V DC | 10 V DC | 72 V DC | 72 V DC |
| Input resistance | 3200 Ω | 3200 Ω | 43,000 Ω | 43,000 Ω |
| Ratings for solid-state module combined with socket base | | | | |
| Output circuit | | | | |
| Output | 1 NO contact | 1 NO contact | 1 NO contact | 1 NO contact |
| Max. continuous current Max. inrush current (10ms) | 2/20 A | 2/40 A | 2/20 A | 2/40 A |
| Rated voltage Max. reverse voltage | (24/33) V AC DC | (240/275) V AC | (24/33) V AC DC | (240/275) V AC |
| Switching load-voltage range | 1.5 to 24 V DC | 12 to 240 V AC | 1.5 to 24 V DC | 12 to 240 V AC |
| Min. switching current | 1 mA | 22 mA | 1 mA | 22 mA |
| Max. residual current at 55 °C | 0.001 mA | 1.5 mA | 0.001 mA | 1.5 mA |
| Max. voltage drop at 20 °C and rated current | 0.12 V | 1.6 V | 0.12 V | 1.6 V |

Individual components, socket base

| Type/Colour grey (RAL 7032) | ZPRC 6-12-24 V DC | ZPRC 6-12-24 V DC | ZPRC 220 ... 240 V AC/DC | ZPRC 220 ... 240 V AC/DC |
|-----------------------------|-------------------|-------------------|--------------------------|--------------------------|
| Cat. no./Qty. p.pck. | 15494.2/10 | 15494.2/10 | 15493.2/10 | 15493.2/10 |

Individual components, solid-state module

| Type/Colour | PSC 1/24 V DC-24 V/2 A/DC | PSC 1/24 V DC-240 V/2A/AC | PSC 1/60 V/DC-24 V/2A/DC | PSC 1/60 V/DC-240 V/2A/AC |
|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|
| Cat. no./Qty. p.pck. | 15505.2/10 | 15504.2/10 | 15507.2/10 | 15506.2/10 |

Accessories AQI/PRC external insulated cross-connector

| AQI/PRC/20 | AQI/PRC/20 | AQI/PRC/20 | AQI/PRC/20 |
|------------------------------------|------------------|------------------|------------------|
| Cat. no./Qty. p.pck. yellow | 15545.8/1 | 15545.8/1 | 15545.8/1 |
| Cat. no./Qty. p.pck. blue | 15545.5/1 | 15545.5/1 | 15545.5/1 |
| Cat. no./Qty. p.pck. black | 15545.4/1 | 15545.4/1 | 15545.4/1 |

TW/PRC partitions

| TW/PRC | TW/PRC | TW/PRC | TW/PRC |
|-----------------------------|------------------|------------------|------------------|
| Cat. no./Qty. p.pck. | 15546.2/1 | 15546.2/1 | 15546.2/1 |

PMC labelling/markers

| PMC BSTR 6/30 | PMC BSTR 6/30 | PMC BSTR 6/30 | PMC BSTR 6/30 |
|--|-------------------|-------------------|-------------------|
| Cat. no./Qty. p.pck., standard print, see catalog | p. 157 | p. 157 | p. 157 |
| Cat. no./Qty. p.pck. neutral | 9106.7/300 | 9106.7/300 | 9106.7/300 |
| Cat. no./Qty. p.pck., special print | 9107.7/300 | 9107.7/300 | 9107.7/300 |

BWMA metal tool

| BWMA 1 | BWMA 1 | BWMA 1 | BWMA 1 |
|-----------------------------|-----------------|-----------------|-----------------|
| Cat. no./Qty. p.pck. | 3808.0/1 | 3808.0/1 | 3808.0/1 |

Solid-state compact PSC

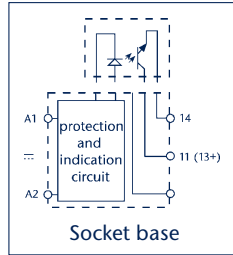
Solid-state terminals, screw connection

- consisting of:
 - A basic terminal and a pluggable solid state module
 - Mount on TS 35

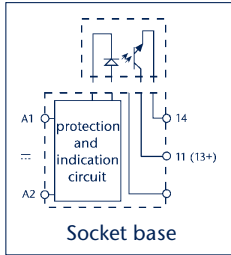
Circuit diagram

- Internal EMC coil circuitry and LED display

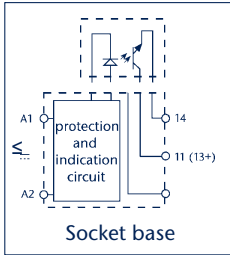
PSCU 1/24 V DC/24 V DC



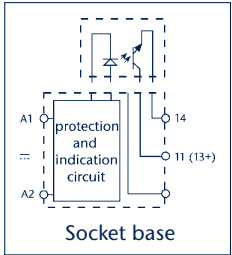
PSCU 1/24 V DC/240 V AC



PSCU 1/240 V AC/24 V DC



PSCU 1/240 V AC/240 V AC



| | |
|---|--|
| Type | PSCU 1/24 V DC/24 V DC |
| Cat. no./Qty. p.pck. | 15530.2/10 |
| Type/Colour grey (RAL 7032) | |
| Size (L x W x H) with TS 35 x 7.5 | 87.3 x 6.2 x 79.9 mm |
| Weight | 36 g |
| Rated operating voltage | 24 V DC |
| General information | |
| Response time/Release time | 0.1/0.4 ms |
| Dielectric strength of control/load circuit | 2,500 V |
| Ambient temperature | -20 to +55 °C |
| Relay protection type | RT III |
| Ratings for socket base | |
| Ambient temperature | -20 to +55 °C |
| Insulation stripping length | 10 mm |
| Max. connection cross-section, solid flexible | 1 x 2.5 1 x 2.5 mm ² 1 x 14 1 x 14 mm ² |

| | |
|----------------------|---------------|
| Input circuit | |
| Rated voltage | 24 V DC |
| Power rating | 0.2 W |
| Operating range | 16 to 30 V DC |
| Control current | 10.5 mA DC |
| Drop-out voltage | 10 AC/DC |
| Input resistance | 3,200 Ω |

| | |
|---|-----------------|
| Ratings for solid-state module combined with socket base | |
| Output circuit | |
| Output | 1 NO contact |
| Max. continuous current Max. inrush current (10ms) | 2/20 A |
| Rated voltage Max. reverse voltage | (24/33) V AC DC |
| Switching load-voltage range | 1.5 to 24 V DC |
| Min. switching current | 1 mA |
| Max. residual current at 55 °C | 0.001 mA |
| Max. voltage drop at 20 °C and rated current | 0.12 V |

Individual components, socket base

| | |
|-----------------------------|------------------|
| Type/Colour grey (RAL 7032) | PRC 6-12-24 V DC |
| Cat. no./Qty. p.pck. | 15490.2/10 |

Individual components, solid-state module

| | |
|-----------------------------|---------------------------|
| Type/colour | PSC 1/24 V DC-24 V/2 A/DC |
| Cat. no./Qty. p.pck. | 15505.2/10 |

Accessories AQI/PRC external insulated cross-connector

| | |
|------------------------------------|-----------|
| Cat. no./Qty. p.pck. yellow | 15545.8/1 |
| Cat. no./Qty. p.pck. blue | 15545.5/1 |
| Cat. no./Qty. p.pck. black | 15545.4/1 |

TW/PRC partition

| | |
|-----------------------------|-----------|
| Cat. no./Qty. p.pck. | 15546.2/1 |
|-----------------------------|-----------|

PMC labelling/markers

| | |
|---|------------|
| Cat. no./Qty. p.pck. , standard print, see catalog | p. 157 |
| Cat. no./Qty. p.pck. neutral | 9106.7/300 |
| Cat. no./Qty. p.pck. , special print | 9107.7/300 |

SDB screwdriver

| | |
|-----------------------------|----------|
| Cat. no./Qty. p.pck. | 1086.0/1 |
|-----------------------------|----------|

| | |
|---|--|
| Type | PSCU 1/24 V DC/240 V AC |
| Cat. no./Qty. p.pck. | 15529.2/10 |
| Type/Colour grey (RAL 7032) | |
| Size (L x W x H) with TS 35 x 7.5 | 87.3 x 6.2 x 79.9 mm |
| Weight | 36 g |
| Rated operating voltage | 24 V DC |
| General information | |
| Response time/Release time | 12/12 ms |
| Dielectric strength of control/load circuit | 2,500 V |
| Ambient temperature | -20 to +55 °C |
| Relay protection type | RT III |
| Ratings for socket base | |
| Ambient temperature | -20 to +55 °C |
| Insulation stripping length | 10 mm |
| Max. connection cross-section, solid flexible | 1 x 2.5 1 x 2.5 mm ² 1 x 14 1 x 14 mm ² |

| | |
|----------------------|---------------|
| Input circuit | |
| Rated voltage | 24 V DC |
| Power rating | 0.2 W |
| Operating range | 16 to 30 V DC |
| Control current | 10.5 mA DC |
| Drop-out voltage | 10 AC/DC |
| Input resistance | 3,200 Ω |

| | |
|---|----------------|
| Ratings for solid-state module combined with socket base | |
| Output circuit | |
| Output | 1 NO contact |
| Max. continuous current Max. inrush current (10ms) | 2/40 A |
| Rated voltage Max. reverse voltage | (240/275) V AC |
| Switching load-voltage range | 12 to 240 V AC |
| Min. switching current | 22 mA |
| Max. residual current at 55 °C | 1.5 mA |
| Max. voltage drop at 20 °C and rated current | 1.6 V |

| | |
|---|--|
| Type | PSCU 1/240 V AC/24 V DC |
| Cat. no./Qty. p.pck. | 15532.2/10 |
| Type/Colour grey (RAL 7032) | |
| Size (L x W x H) with TS 35 x 7.5 | 87.3 x 6.2 x 79.9 mm |
| Weight | 36 g |
| Rated operating voltage | 230 V AC |
| General information | |
| Response time/Release time | 0.1/0.4 ms |
| Dielectric strength of control/load circuit | 2,500 V |
| Ambient temperature | -20 to +55 °C |
| Relay protection type | RT III |
| Ratings for socket base | |
| Ambient temperature | -20 to +55 °C |
| Insulation stripping length | 10 mm |
| Max. connection cross-section, solid flexible | 1 x 2.5 1 x 2.5 mm ² 1 x 14 1 x 14 mm ² |

| | |
|----------------------|-----------------|
| Input circuit | |
| Rated voltage | 230 V DC |
| Power rating | 0.9 W |
| Operating range | 184 to 264 V DC |
| Control current | 5.6 mA DC |
| Drop-out voltage | 20 AC/DC |
| Input resistance | 21,300 Ω |

| | |
|---|-----------------|
| Ratings for solid-state module combined with socket base | |
| Output circuit | |
| Output | 1 NO contact |
| Max. continuous current Max. inrush current (10ms) | 2/20 A |
| Rated voltage Max. reverse voltage | (24/33) V AC DC |
| Switching load-voltage range | 1.5 to 24 V DC |
| Min. switching current | 1 mA |
| Max. residual current at 55 °C | 0.001 mA |
| Max. voltage drop at 20 °C and rated current | 0.12 V |

| | |
|---|--|
| Type | PSCU 1/240 V AC/240 V AC |
| Cat. no./Qty. p.pck. | 15531.2/10 |
| Type/Colour grey (RAL 7032) | |
| Size (L x W x H) with TS 35 x 7.5 | 87.3 x 6.2 x 79.9 mm |
| Weight | 36 g |
| Rated operating voltage | 230 V AC |
| General information | |
| Response time/Release time | 12/12 ms |
| Dielectric strength of control/load circuit | 2,500 V |
| Ambient temperature | -20 to +55 °C |
| Relay protection type | RT III |
| Ratings for socket base | |
| Ambient temperature | -20 to +55 °C |
| Insulation stripping length | 10 mm |
| Max. connection cross-section, solid flexible | 1 x 2.5 1 x 2.5 mm ² 1 x 14 1 x 14 mm ² |

| | |
|----------------------|-----------------|
| Input circuit | |
| Rated voltage | 230 V DC |
| Power rating | 0.9 W |
| Operating range | 184 to 264 V DC |
| Control current | 5.6 mA DC |
| Drop-out voltage | 20 AC/DC |
| Input resistance | 21,300 Ω |

| | |
|---|----------------|
| Ratings for solid-state module combined with socket base | |
| Output circuit | |
| Output | 1 NO contact |
| Max. continuous current Max. inrush current (10ms) | 2/40 A |
| Rated voltage Max. reverse voltage | (240/275) V AC |
| Switching load-voltage range | 12 to 240 V AC |
| Min. switching current | 22 mA |
| Max. residual current at 55 °C | 1.5 mA |
| Max. voltage drop at 20 °C and rated current | 1.6 V |

Opto-coupler modules OKI AC/DC

- Mount on TS 32/TS 35
- Screw connection
- LED for indication of switching status
- Suitable for DC and AC voltage
- OKI 4/230 AC with cover

OKI 4/24 AC/DC
4 channels

OKI 8/24 AC/DC
8 channels

OKI 4/24 AC/DC G
4 channels

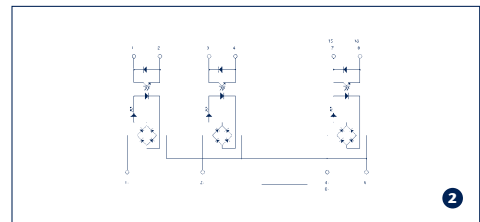
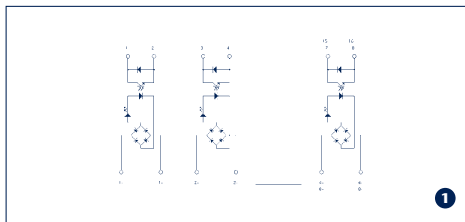
OKI 8/24 AC/DC G
8 channels

OKI 4/230 AC
4 channels



Circuit diagram




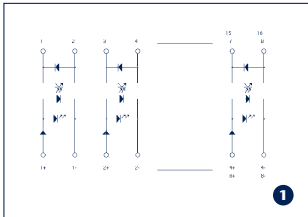
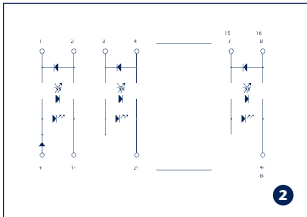
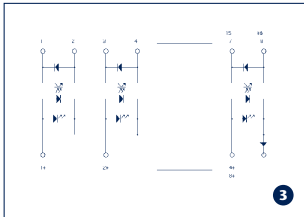
Circuit diagram



| Type | 1 Diagram | 1 Diagram | 2 Diagram | 2 Diagram | 1 Diagram |
|-----------------------------------|---|---|---|---|---|
| Cat.No./Qty. p.pck. | OKI 4/24 AC/DC 5960.3/1 | OKI 8/24 AC/DC 5961.3/1 | OKI 4/24 AC/DC G 5962.3/1 | OKI 8/24 AC/DC G 5963.3/1 | OKI 4/230 AC 5964.3/1 |
| Size (L x W x H) with TS 35 x 7.5 | 87 x 48 x 57 mm | 87 x 89 x 57 mm | 87 x 48 x 57 mm | 87 x 89 x 57 mm | 87 x 48 x 57 mm |
| Weight | 86 g | 154 g | 120 g | 136 g | 109 g |
| General information | | | | | |
| DIN-VDE specifications | DIN EN 50178, DIN VDE 0110, pollution degree 2, over-voltage category III | DIN EN 50178, DIN VDE 0110, pollution degree 2, over-voltage category III | DIN EN 50178, DIN VDE 0110, pollution degree 2, over-voltage category III | DIN EN 50178, DIN VDE 0110, pollution degree 2, over-voltage category III | DIN EN 50178, DIN VDE 0110, pollution degree 2, over-voltage category III |
| Test voltage | 4 kV | 4 kV | 4 kV | 4 kV | 4 kV |
| Operating temperature | -20 to +50°C | -20 to +50°C | -20 to +50°C | -20 to +50°C | -20 to +50°C |
| Insulation stripping length | 7 mm | 7 mm | 7 mm | 7 mm | 7 mm |
| Connection cross-section | 0.2-2.5 mm ² | 0.2-2.5 mm ² | 0.2-2.5 mm ² | 0.2-2.5 mm ² | 0.2-2.5 mm ² |
| Screw connection | AWG 22-14 | AWG 22-14 | AWG 22-14 | AWG 22-14 | AWG 22-14 |
| Max. transmission frequency | 3 Hz | 3 Hz | 3 Hz | 3 Hz | 3 Hz |
| Input data | | | | | |
| Input voltage ±10% | 24 V AC/DC | 24 V AC/DC | 24 V AC/DC | 24 V AC/DC | 230 V AC |
| Rated power consumption | 0,5 W/0.6 VA | 0,5 W/0.6 VA | 0,5 W/0.6 VA | 0,5 W/0.6 VA | 1.4 VA |
| Switching threshold, voltage | 17.5 V DC/15.5 V AC | 17.5 V DC/15.5 V AC | 17.5 V DC/15.5 V AC | 17.5 V DC/15.5 V AC | 130 V AC |
| Switching threshold, current | 8 mA DC/6 mA AC | 8 mA DC/6 mA AC | 8 mA DC/6 mA AC | 8 mA DC/6 mA AC | 0.5 mA AC |
| Output data | | | | | |
| Output voltage | 5 to 48 V DC | 5 to 48 V DC | 5 to 48 V DC | 5 to 48 V DC | 5 to 48 V DC |
| Voltage drop at max. load current | < 1 V | < 1 V | < 1 V | < 1 V | < 1 V |
| Max. output current | 100 mA | 100 mA | 100 mA | 100 mA | 100 mA |
| LED display | green | green | green | green | green |

Opto-coupler modules OKI DC



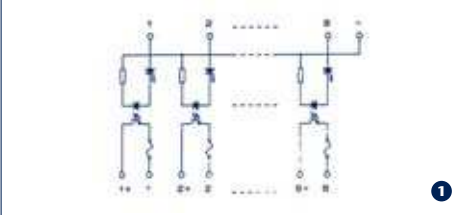
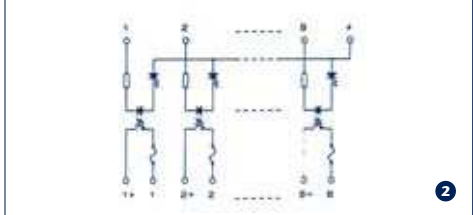
- Mount on TS 32/TS 35
- Screw connection
- LED for indication of switching status
- Other switching frequencies available on request

| OKI 4/5 4 channels | OKI 8/5 8 channels | OKI 4/24 4 channels | OKI 8/24 8 channels |
|---|--|---|------------------------|
|  |  |  | |
| Circuit diagram | Circuit diagram | Circuit diagram | |
|  |  |  | |

| | Diagram | Diagram | Diagram | Diagram |
|-----------------------------------|---|---|---|---|
| Type | OKI 4/5 | OKI 8/5 | OKI 4/24 | OKI 8/24 |
| Cat. no./Qty. p.pck. | 5945.2/1 ① | 5946.2/1 ① | 5947.2/1 ① | 5948.2/1 ① |
| Type - switched | OKI 4/5 + G | OKI 8/5 + G | OKI 4/24 + G | OKI 8/24 + G |
| Cat. no./Qty. p.pck. | 5950.3/1 ② | 5952.3/1 ② | 5954.3/1 ② | 5956.3/1 ② |
| Type + switched | OKI 4/5 - G | OKI 8/5 - G | OKI 4/24 - G | OKI 8/24 - G |
| Cat.No./Qty. p.pck. | 5951.3/1 ③ | 5953.3/1 ③ | 5955.3/1 ③ | 5957.3/1 ③ |
| Size (L x W x H) with TS 35 x 7.5 | 87 x 48 x 57 mm | 87 x 89 x 57 mm | 87 x 48 x 57 mm | 87 x 89 x 57 mm |
| Weight | 75 g | 126 g | 75 g | 126 g |
| General information | | | | |
| DIN-VDE specifications | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III |
| Test voltage | 4 kV | 4 kV | 4 kV | 4 kV |
| Operating temperature | -20 to +50°C | -20 to +50°C | -20 to +50°C | -20 to +50°C |
| Insulation stripping length | 7 mm | 7 mm | 7 mm | 7 mm |
| Connection cross-section | 0.2-2.5 mm ² | 0.2-2.5 mm ² | 0.2-2.5 mm ² | 0.2-2.5 mm ² |
| Screw connection | AWG 22-14 | AWG 22-14 | AWG 22-14 | AWG 22-14 |
| Max. transmission frequency | 100 Hz | 100 Hz | 100 Hz | 100 Hz |
| Input data | | | | |
| Input voltage ±10% | 5 V DC | 5 V DC | 24 V DC | 24 V DC |
| Rated power consumption | 45 mW | 45 mW | 0.3 W | 0.3 W |
| Switching threshold, voltage | 2 V DC | 2 V DC | 19 V DC | 19 V DC |
| Switching threshold, current | 0.6 mA | 0.6 mA | 5 mA | 5 mA |
| Output data | | | | |
| Output voltage | 5 to 48 V DC | 5 to 48 V DC | 5 to 48 V DC | 5 to 48 V DC |
| Voltage drop at max. load current | < 1 V | < 1 V | < 1 V | < 1 V |
| Max. output current | 100 mA | 100 mA | 100 mA | 100 mA |
| LED display | green | green | green | green |

Solid-state output modules SSOIF

- Mount on TS 32/TS 35
- Screw connection
- LED for indication of switching status
- Modules are delivered without solid-state relay

| SSOIF 1 | SSOIF 2 | SSOIF 4 | SSOIF 8 | SSOIF 16 |
|--|---|---|---------|----------|
|  |  | | | |
| Circuit diagram | | Circuit diagram | | |
|  | |  | | |

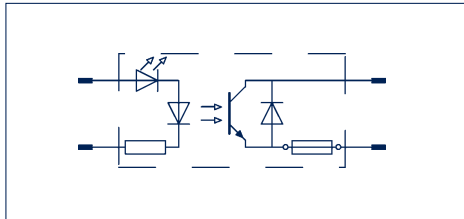
| | SSOIF 1 | Diagram | Diagram | Diagram | Diagram |
|--|--|--|--|--|--|
| Type | | | | | |
| Cat. no./Qty. p.pck. | 7783.2/1 | | | | |
| Type | + switched | | | | |
| Cat. no./Qty. p.pck. | | SSOIF 2 + 7784.2/1 ① | SSOIF 4 + 7786.2/1 ① | SSOIF 8 + 5970.3/1 ① | SSOIF 16 + 7788.2/1 ① |
| Type | - switched | | | | |
| Cat.No./Qty. p.pck. | | SSOIF 2 - 7785.2/1 ② | SSOIF 4 - 7787.2/1 ② | SSOIF 8 - 5971.3/1 ② | SSOIF 16 - 7789.2/1 ② |
| Size (L x W x H) with TS 35 x 7.5 | 87 x 18 x 57 mm | 87 x 31 x 57 mm | 87 x 60 x 57 mm | 87 x 110 x 57 mm | 87 x 212 x 57 mm |
| Weight | 30 g | 55 g | 85 g | 150 g | 280 g |
| General information | | | | | |
| DIN-VDE specifications | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III |
| Test voltage coil/contact | 4 kV | 4 kV | 4 kV | 4 kV | 4 kV |
| Operating temperature | -20 to +50°C | -20 to +50°C | -20 to +50°C | -20 to +50°C | -20 to +50°C |
| Insulation stripping length | 7 mm | 7 mm | 7 mm | 7 mm | 7 mm |
| Connection cross-section | 0.2-2.5 mm ² | 0.2-2.5 mm ² | 0.2-2.5 mm ² | 0.2-2.5 mm ² | 0.2-2.5 mm ² |
| Screw connection | AWG 22-14 | AWG 22-14 | AWG 22-14 | AWG 22-14 | AWG 22-14 |
| Input/output data | The rated data is dependent from solid-state relay which is being used. | | | | |

Solid-state relays OPTO 22

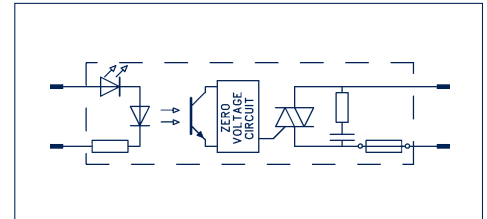
- Generation G4
- Pluggable
- Integrated LED for indication of switching status
- Removable fuse



Circuit diagram



Circuit diagram

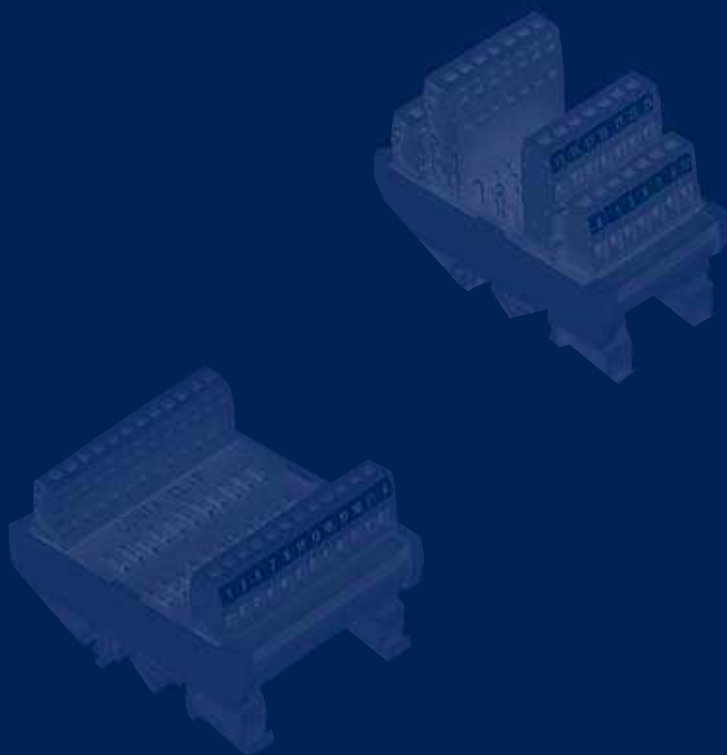


| Type | G 4 ODC 5 | G 4 ODC 24 | G 4 OAC 5 | G 4 OAC 24 |
|-----------------------------------|------------------|-------------------|-------------------|-------------------|
| Cat.No./Qty. p.pck. | 5975.0/1 | 5976.0/1 | 5977.0/1 | 5978.0/1 |
| Weight | 27 g | 27 g | 27 g | 27 g |
| Input data | | | | |
| Logic pickup voltage | 5 V (2.5 to 8 V) | 24 V (18 to 32 V) | 5 V (2.5 to 8 V) | 24 V (18 to 32 V) |
| Logic dropout voltage | 1 V | 1 V | 1 V | 1 V |
| Rated current | 12 mA | 18 mA | 12 mA | 18 mA |
| Input resistance | 220 Ohm | 2.2 kOhm | 220 Ohm | 2.2 kOhm |
| Output data | | | | |
| Operating voltage | 5... 60 V DC | 5... 60 V DC | 24... 280 V AC | 24... 280 V AC |
| Max. current (45°C) | 3 A | 3 A | 3 A | 3 A |
| Max. current (70°C) | 2 A | 2 A | 2 A | 2 A |
| Max. surge current | 5 A / 1sec. | 5 A / 1sec. | 80 A / 1/2 period | 80 A / 1/2 period |
| Voltage drop at max. load current | 1.6 V | 1.6 V | 1.6 V | 1.6 V |
| Min. load current | - | - | 20 mA | 20 mA |
| Max. quiescent current | 1 mA | 1 mA | 5 mA | 5 mA |
| Output | Free-wheel diode | Free-wheel diode | RC-combination | RC-combination |
| Insulation test, Input-output | 4 kV AC eff. | 4 kV AC eff. | 4 kV AC eff. | 4 kV AC eff. |
| ON/OFF switching time | 100/750 µ sec. | 100/750 µ sec. | < 1/2 period | < 1/2 period |
| Operating temperature range | -30 to +70°C | -30 to +70°C | -30 to +70°C | -30 to +70°C |
| LED display | red | red | red | red |

Fuse, component, diode and indicator modules

In the passive electronics sector, **CONTA-CLIP** offers a large variety of module types which support fast, secure, and compact functioning.

These modules can be mounted with their combi-base on either the **TS32** or **TS35** mounting rails. They use a screw PCB terminal connection with a rated cross-section of 2.5 mm². Customer-specific descriptions can be attached using the standard **PMC** Pocket-Maxicard quick labeling system. The PMCs fit on labeling channels located on both sides of the orange-colored fitting trough.



Fuse, component, diode and indicator modules



Fuse modules

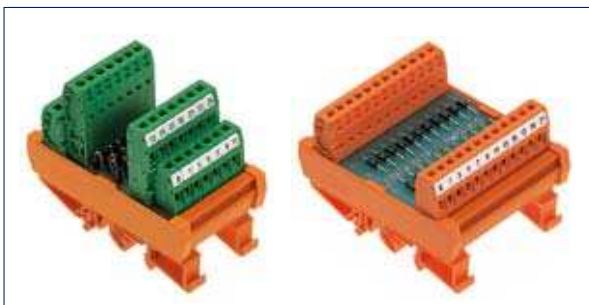
The **SM** fuse modules are designed with three or six micro-fuse receptacles. Each is separated with screw-PCB terminals. The fuse receptacles can hold micro-fuses in the 5 x 20 size.

In the ...G designs, the entries for the fuse receptacles are connected to each other via the PCB. This allows for a shared power supply.



Component modules

The **BSM** component module features two rows of solder pins, attached parallel to the PCB. They are connected via circuit tracks, with screw-PCB terminals. The area on the opposite side to the solder pins may be used for soldering on a variety of user-side components, such as resistors, diodes, capacitors or varistors.



Diode modules

Different components, such as diodes or diodes with resistors, can be connected in parallel or in series with the **DM** diode modules. These diode circuits fulfil a variety of tasks in the area of electrical and electronic controls. These include: protection against polarity reversal, the electric decoupling of warning signals, spark-repression diodes for overvoltages from inductive loads such as magnet valves or DC relays, and lamp test modules for the detection and decoupling of group status messages.

The modules are available in minus-pole or plus-pole designs, or as freely-switchable units.



Lamp test modules

The **LPM** lamp test modules are for the detection and decoupling of group status messages. They serve as optical indicators of the switching or signal status.

The **LPM-K** modules feature diodes which are connected in pairs on the cathode side. They are freely-switchable on the anode. On the **LPM-A** modules, the diodes are connected in pairs on the cathode side. One anode from the connected pair is connected to a common collection point with the other anodes.

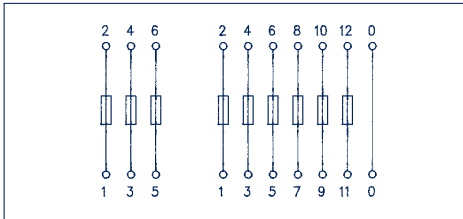
Fuse modules SM

- Mount on TS 32/TS 35
- Screw-clamp connection
- Modules delivered standard with 3 or 6 fuse inserts
- Suitable for 5x20 fuse cartridges
- The modules are available with individually wired fuse paths or as distributors with common feed-in

SM E Individually switchable



Circuit diagram



SM 3-E 5712.2/1

87 x 24 x 77 mm
51 g

SM 6-E 5714.2/1

87 x 47 x 77 mm
104 g

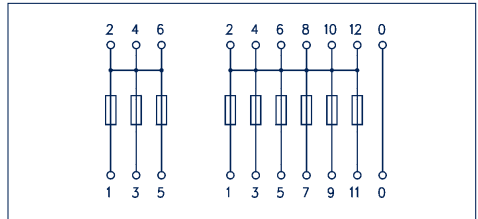
DIN EN 50178; DIN VDE 0110, pollution degree 2, overvoltage category III
-20 to +50°C
7 mm
0.2-2.5 mm²
AWG 22-14

250 V AC
6.3 A max per current path
4 A max., with simultaneous loads
16 A
6.3 A

SM G Shared feed-in



Circuit diagram



SM 3-G 5716.2/1

87 x 24 x 77 mm
51 g

SM 6-G 5718.2/1

87 x 47 x 77 mm
104 g

DIN EN 50178; DIN VDE 0110, pollution degree 2, overvoltage category III
-20 to +50°C
7 mm
0.2-2.5 mm²
AWG 22-14

250 V AC
6.3 A max per current path
4 A max., with simultaneous loads
16 A
6.3 A

Type
Cat. no./Qty. p.pck.
Size (L x W x H) with TS 35 x 7.5
Weight

Type
Cat. no./Qty. p.pck.
Size (L x W x H) with TS 35 x 7.5
Weight

General information

DIN-VDE specifications

Operating temperature

Insulation stripping length

Connection cross-section

Screw-clamp connection

Input data

Max. operating voltage

Rated current

Max. load at point L1

Fuse (default)

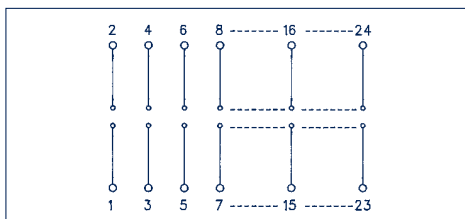
Component modules BSM

- Mount on TS 32/TS 35
- Screw-clamp connection
- Two rows of soldering pins for flexible assembly of components

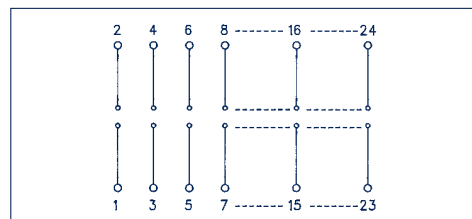
BSM



Circuit diagram



Circuit diagram



| | | | |
|-----------------------------------|--|--|--|
| Type | BSM 4 | | |
| Cat. no./Qty. p.pck. | 6011.2/1 | | |
| Size (L x W x H) with TS 35 x 7.5 | 87 x 27 x 57 mm | | |
| Weight | 45 g | | |
| Number of solder pins | 2 rows for 4 poles | | |
| Type | BSM 4/AD* | | |
| Cat. no./Qty. p.pck. | 6011.9/1 | | |
| Size (L x W x H) with TS 35 x 7.5 | 87 x 27 x 57 mm | | |
| Weight | 62 g | | |
| Number of solder pins | 2 rows for 4 poles | | |
| Type | BSM 8 | | |
| Cat. no./Qty. p.pck. | 5700.2/1 | | |
| Size (L x W x H) with TS 35 x 7.5 | 87 x 47 x 57 mm | | |
| Weight | 79 g | | |
| Number of solder pins | 2 rows for 8 poles | | |
| Type | BSM 8/AD* | | |
| Cat. no./Qty. p.pck. | 5700.9/1 | | |
| Size (L x W x H) with TS 35 x 7.5 | 87 x 47 x 57 mm | | |
| Weight | 102 g | | |
| Number of solder pins | 2 rows for 8 poles | | |
| Type | BSM 12 | | |
| Cat. no./Qty. p.pck. | 5701.2/1 | | |
| Size (L x W x H) with TS 35 x 7.5 | 87 x 68 x 57 mm | | |
| Weight | 100 g | | |
| Number of solder pins | 2 rows for 12 poles | | |
| Type | BSM 12/AD* | | |
| Cat. no./Qty. p.pck. | 5701.9/1 | | |
| Size (L x W x H) with TS 35 x 7.5 | 87 x 68 x 57 mm | | |
| Weight | 135 g | | |
| Number of solder pins | 2 rows for 12 poles | | |
| General information | | | |
| DIN-VDE specifications | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III |
| Operating temperature | -20 to +50 °C | -20 to +50 °C | -20 to +50 °C |
| Insulation stripping length | 7 mm | 7 mm | 7 mm |
| Connection cross-section | 0.2-2.5 mm ² | 0.2-2.5 mm ² | 0.2-2.5 mm ² |
| Screw-clamp connection | AWG 22-14 | AWG 22-14 | AWG 22-14 |
| Input data | | | |
| Distance between pins | 35 mm | 35 mm | 35 mm |
| Height of soldering pins | ca. 5 mm | ca. 5 mm | ca. 5 mm |
| Solder pin grid/pitch | 5.08 mm | 5.08 mm | 5.08 mm |
| Max. operating voltage | 250 V AC | 250 V AC | 250 V AC |
| Max. rated current | 5 A | 5 A | 5 A |

*When the operating voltage exceeds 30 V AC/60 V DC then AD modules must be used.

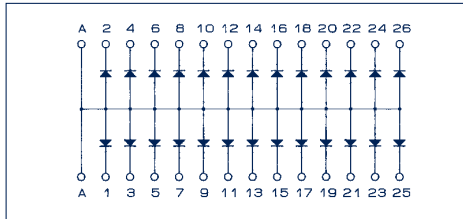
Diode modules DM

- Mount on TS 32/TS 35
- Screw-clamp connection
- Diode modules with through type diode circuits as well as diode gates with a common anode or cathode
- Applications are: reverse polarity protection, gathering and decoupling electrical signals, arc extinguishing when switching inductive loads

DM 26-A



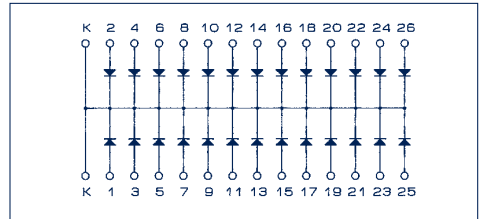
Circuit diagram



DM 26-K



Circuit diagram



| | |
|--|-----------------|
| Type | DM 26-A |
| Cat. no./Qty. p.pck. | 6093.2/1 |
| Size (L x W x H) with TS 35 x 7.5 | 87 x 46 x 72 mm |
| Weight | 115 g |

| | |
|--|-----------------|
| Type | DM 26-A/AD* |
| Cat. no./Qty. p.pck. | 6093.9/1 |
| Size (L x W x H) with TS 35 x 7.5 | 87 x 46 x 72 mm |
| Weight | 140 g |

| | |
|--|-----------------|
| Type | DM 26-K |
| Cat. no./Qty. p.pck. | 6094.2/1 |
| Size (L x W x H) with TS 35 x 7.5 | 87 x 46 x 72 mm |
| Weight | 115 g |

| | |
|--|-----------------|
| Type | DM 26-K/AD* |
| Cat. no./Qty. p.pck. | 6094.9/1 |
| Size (L x W x H) with TS 35 x 7.5 | 87 x 46 x 72 mm |
| Weight | 140 g |

| | |
|------------------------------------|--|
| General information | DIN EN 50178; DIN VDE 0110, pollution degree 2, overvoltage category III |
| Operating temperature | -20 to +50°C |
| Insulation stripping length | 7 mm |
| Connection cross-section | 0.2-2.5 mm ² |
| Screw-clamp connection | AWG 22-14 |

| | |
|------------------------------------|--|
| General information | DIN EN 50178; DIN VDE 0110, pollution degree 2, overvoltage category III |
| Operating temperature | -20 to +50°C |
| Insulation stripping length | 7 mm |
| Connection cross-section | 0.2-2.5 mm ² |
| Screw-clamp connection | AWG 22-14 |

| | |
|----------------------------------|-------------|
| Input data | |
| Max. operating voltage | 250 V AC/DC |
| Diode reverse voltage | 1,000 V |
| Max. diode current | 0.5 A |
| Total current per module | 10 A |
| Diode type | 1 N 4007 |
| Reverse current of diode | 5 µA |
| On-state voltage of diode | 0.8 V |

| | |
|----------------------------------|-------------|
| Input data | |
| Max. operating voltage | 250 V AC/DC |
| Diode reverse voltage | 1,000 V |
| Max. diode current | 0.5 A |
| Total current per module | 10 A |
| Diode type | 1 N 4007 |
| Reverse current of diode | 5 µA |
| On-state voltage of diode | 0.8 V |

| | |
|----------------------------------|-------------|
| Input data | |
| Max. operating voltage | 250 V AC/DC |
| Diode reverse voltage | 1,000 V |
| Max. diode current | 0.5 A |
| Total current per module | 10 A |
| Diode type | 1 N 4007 |
| Reverse current of diode | 5 µA |
| On-state voltage of diode | 0.8 V |

*When the operating voltage exceeds 30 V AC/60 V DC then AD modules must be used. Designs with other diode types are available upon request.

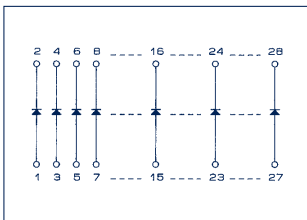
Diode modules DM

- Mount on TS 32/TS 35
- Screw-clamp connection
- Diode modules with through type diode circuits as well as diode gates with a common anode or cathode
- Applications are: reverse polarity protection, gathering and decoupling electrical signals, arc extinguishing when switching inductive loads

DM



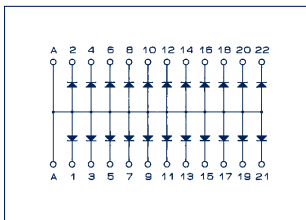
Circuit diagram



DM-A



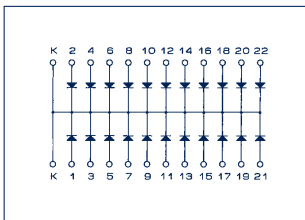
Circuit diagram



DM-K



Circuit diagram



| Type | DM 4 | DM 14-A | DM 14-K |
|-----------------------------------|--|--|--|
| Cat. no./Qty. p.pck. | 6318.2/1 | 5704.2/1 | 5706.2/1 |
| Size (L x W x H) with TS 35 x 7.5 | 87 x 27 x 57 mm | 87 x 49 x 57 mm | 87 x 49 x 57 mm |
| Weight | 44 g | 80 g | 80 g |
| Type | DM 4/AD* | DM 14-A/AD | DM 14-K/AD |
| Cat. no./Qty. p.pck. | 6318.9/1 | 5704.9/1 | 5706.9/1 |
| Size (L x W x H) with TS 35 x 7.5 | 87 x 27 x 57 mm | 87 x 49 x 57 mm | 87 x 49 x 57 mm |
| Weight | 62 g | 101 g | 101 g |
| Type | DM 8 | DM 22-A | DM 22-K |
| Cat. no./Qty. p.pck. | 5702.2/1 | 5705.2/1 | 5707.2/1 |
| Size (L x W x H) with TS 35 x 7.5 | 87 x 47 x 57 mm | 87 x 68 x 57 mm | 87 x 68 x 57 mm |
| Weight | 78 g | 109 g | 109 g |
| Type | DM 8/AD* | DM 22-A/AD | DM 22-K/AD |
| Cat. no./Qty. p.pck. | 5702.9/1 | 5705.9/1 | 5707.9/1 |
| Size (L x W x H) with TS 35 x 7.5 | 87 x 47 x 57 mm | 87 x 68 x 57 mm | 87 x 68 x 57 mm |
| Weight | 99 g | 138 g | 138 g |
| Type | DM 12 | | |
| Cat. no./Qty. p.pck. | 5703.2/1 | | |
| Size (L x W x H) with TS 35 x 7.5 | 87 x 69 x 57 mm | | |
| Weight | 107 g | | |
| Type | DM 12/AD* | | |
| Cat. no./Qty. p.pck. | 5703.9/1 | | |
| Size (L x W x H) with TS 35 x 7.5 | 87 x 69 x 57 mm | | |
| Weight | 135 g | | |
| Type | DM 14 | | |
| Cat. no./Qty. p.pck. | 6319.2/1 | | |
| Size (L x W x H) with TS 35 x 7.5 | 87 x 46 x 57 mm | | |
| Weight | 116 g | | |
| Type | DM 14/AD | | |
| Cat. no./Qty. p.pck. | 6319.9/1 | | |
| Size (L x W x H) with TS 35 x 7.5 | 87 x 46 x 57 mm | | |
| Weight | 147 g | | |
| General information | | | |
| DIN-VDE specifications | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III |
| Operating temperature | -20 to +50 °C | -20 to +50 °C | -20 to +50 °C |
| Insulation stripping length | 7 mm | 7 mm | 7 mm |
| Connection cross-section | 0.2-2.5 mm ² | 0.2-2.5 mm ² | 0.2-2.5 mm ² |
| Screw-clamp connection | AWG 22-14 | AWG 22-14 | AWG 22-14 |
| Input data | | | |
| Max. operating voltage | 250 V AC/DC | 250 V AC/DC | 250 V AC/DC |
| Diode reverse voltage | 1,000 V | 1,000 V | 1,000 V |
| Max. diode current | 1 A | 1 A | 1 A |
| Total current per module | - | 6 A | 6 A |
| Diode type | 1 N 4007 | 1 N 4007 | 1 N 4007 |
| Reverse current of diode | 5 µA | 5 µA | 5 µA |
| On-state voltage of diode | 0.8 V | 0.8 V | 0.8 V |

*When the operating voltage exceeds 30 V AC/60 V DC then AD modules must be used. Designs with other diode types are available upon request.

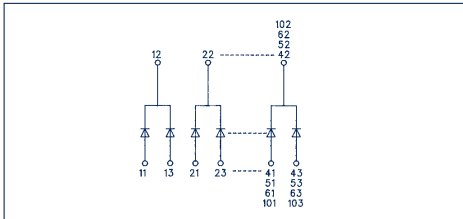
Lamp test modules LPM

- Mount on TS 32/TS 35
- Screw-clamp connection
- Lamp test modules for the detection and decoupling of group status messages
- The LPM-K modules feature diodes which are connected in pairs on the cathode side. They are freely-switchable at the anode.
- On the LPM-A modules, the diodes are connected in pairs on the cathode side. One anode from the connected pair is connected to a common collection point with the other anodes.

LPM



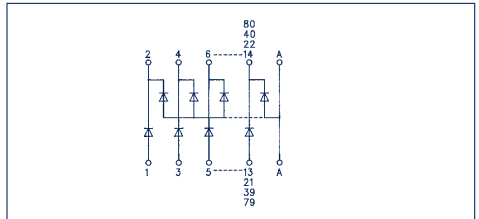
Circuit diagram



LPM-A



Circuit diagram



| Type | Cat. no./Qty. p.pck. | Size (L x W x H) with TS 35 x 7.5 | Weight |
|-----------------------------|--|-----------------------------------|--------|
| LPM 8-4K | 5708.2/1 | 87 x 49 x 57 mm | 74 g |
| LPM 8-4K/AD* | 5708.9/1 | 87 x 49 x 57 mm | 96 g |
| LPM 12-6K | 5709.2/1 | 87 x 68 x 57 mm | 100 g |
| LPM 12-6K/AD* | 5709.9/1 | 87 x 68 x 57 mm | 130 g |
| LPM 20-10K | 6124.2/1 | 87 x 109 x 57 mm | 152 g |
| LPM 20-10K/AD* | 6124.9/1 | 87 x 109 x 57 mm | 190 g |
| LPM 7-A | 5710.2/1 | 87 x 49 x 57 mm | 80 g |
| LPM 7-A/AD* | 5710.9/1 | 87 x 49 x 57 mm | 109 g |
| LPM 11-A | 5711.2/1 | 87 x 68 x 57 mm | 110 g |
| LPM 11-A/AD* | 5711.9/1 | 87 x 68 x 57 mm | 198 g |
| LPM 20-A | 6125.2/1 | 87 x 115 x 57 mm | 176 g |
| LPM 20-A/AD* | 6125.9/1 | 87 x 115 x 57 mm | 215 g |
| LPM 40-A | 6126.2/1 | 87 x 216 x 57 mm | 325 g |
| LPM 40-A/AD* | 6126.9/1 | 87 x 216 x 57 mm | 390 g |
| General information | | | |
| DIN-VDE specifications | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III | | |
| Operating temperature | -20 to +50°C | | |
| Insulation stripping length | 7 mm | | |
| Connection cross-section | 0.2-2.5 mm ² | | |
| Screw-clamp connection | AWG 22-14 | | |
| Input data | | | |
| Max. operating voltage | 250 V AC/DC | | |
| Diode reverse voltage | 1,000 V | | |
| Max. diode current | 1 A | | |
| Total current per module | - | | |
| Diode type | 1 N 4007 | | |
| Reverse current of diode | 5 µA | | |
| On-state voltage of diode | 0.8 V | | |

*When the operating voltage exceeds 30 V AC/60 V DC then AD modules must be used. Designs with other diode types are available upon request.

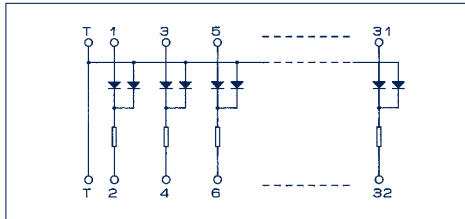
Lamp test modules LTRS

- Mount on TS 32/TS 35
- LTRS-16 modules have screw connections on the input and output sides. FLTRS-16 modules have a screw connection on the input side and a ribbon cable connection on the output side
- On the cathode side, the modules are connected with a resistor each

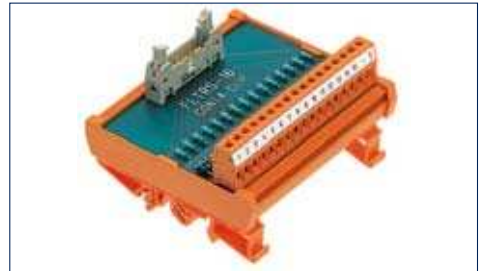
LTRS-16



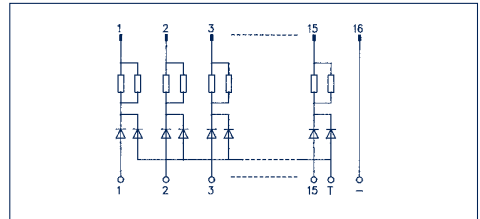
Circuit diagram



FLTRS-16



Circuit diagram



| | |
|--|--------------------------|
| Type | |
| Cat. no./Qty. p.pck. | |
| Size (L x W x H) with TS | 35 x 7.5 |
| Weight | |
| General information | |
| DIN-VDE specifications | |
| Operating temperature | |
| Insulation stripping length | |
| Connection cross-section | |
| Screw-clamp connection | |
| Input data | |
| Max. operating voltage | 24 V DC |
| Diode reverse voltage | 1,000 V |
| Max. diode current | 0.2 A |
| Total current per module | 6 A through terminal "T" |
| Diode type | 1 N 4007 |
| Resistance* | 2200 Ω/0.4 W |
| Current through resistance, at 24 V DC | 10 mA |
| Flat ribbon connection | - |

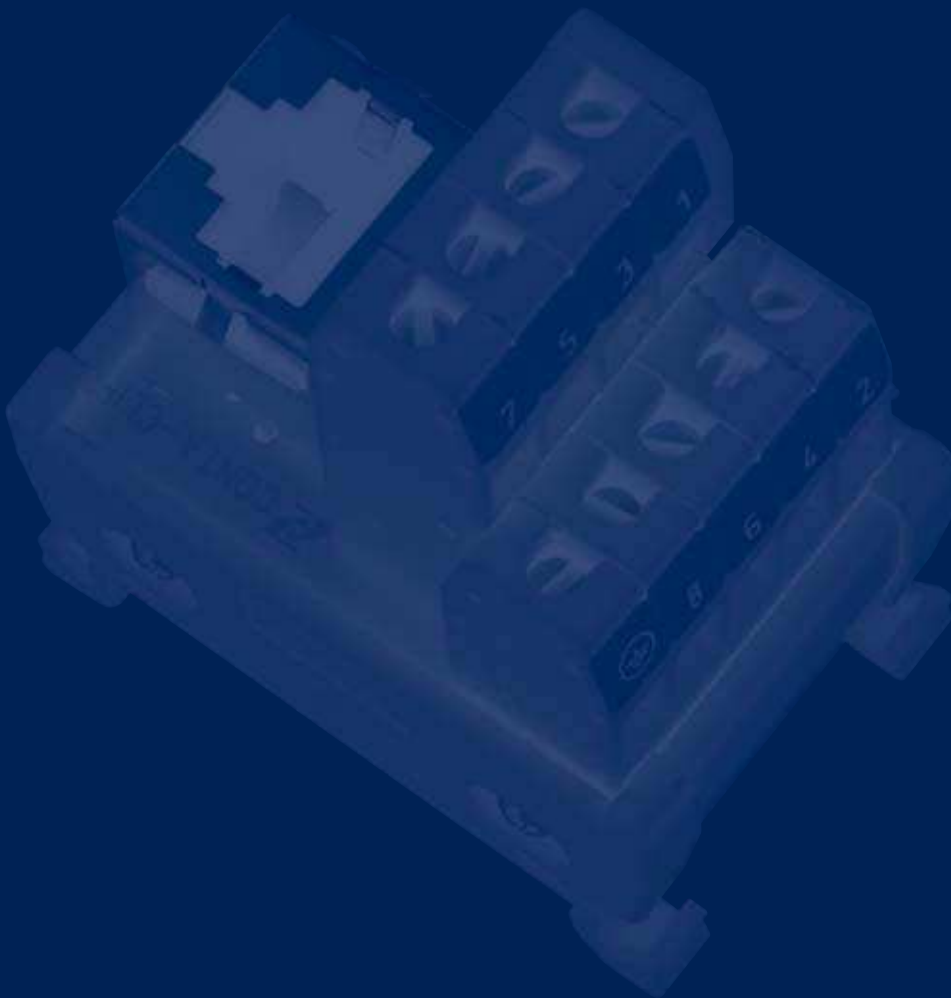
| | |
|--|-----------------|
| LTRS-16 | |
| 6320.2/1 | |
| Size (L x W x H) | 87 x 94 x 57 mm |
| Weight | 147 g |
| DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III | |
| -20 to +50°C | |
| 7 mm | |
| 0.2-2.5mm ² | |
| AWG 22-14 | |
| | |
| 24 V DC | |
| 1,000 V | |
| 0.2 A | |
| 6 A through terminal "T" | |
| 1 N 4007 | |
| 2200 Ω/0.4 W | |
| 10 mA | |
| - | |

| | |
|--|-----------------|
| FLTRS-16 | |
| 6004.2/1 | |
| Size (L x W x H) | 87 x 94 x 57 mm |
| Weight | 130 g |
| DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III | |
| -20 to +50°C | |
| 7 mm | |
| 0.2-2.5mm ² | |
| AWG 22-14 | |
| | |
| 24 V DC | |
| 1,000 V | |
| 0.2 A | |
| 6 A through terminal "16" and "-" | |
| 1 N 4007 | |
| 4700 Ω/0.4 W | |
| 5 mA | |
| DIN 41651 | |

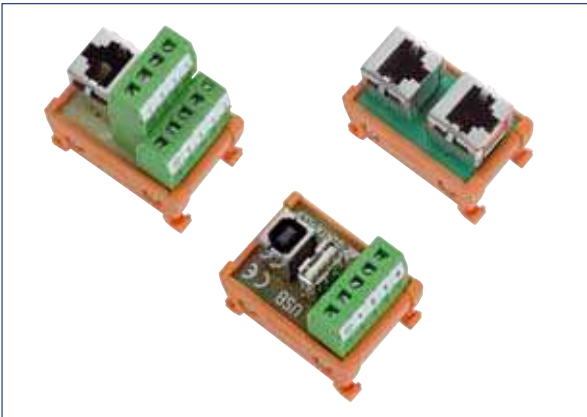
Interface Modules

Interface modules make it possible to use a passive mechanical-electrical implementation of standard connectors onto screw or tension-spring PCB terminals. The individual signals of the multi-pole or high-pole connectors are implemented one-to-one to the PCB – from individual wire via connectors to pre-assembled cables. Thus, the assembly time and associated costs are reduced.

Because of the compact design of the interface modules, their clear terminal labeling, and their simple assembly on TS 32 or TS 35 rails, this system represents an attractive alternative to a pure individual wire approach.



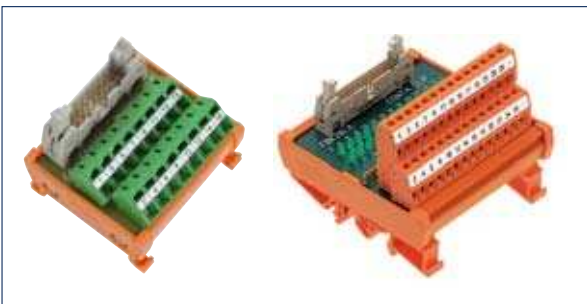
Interface Modules



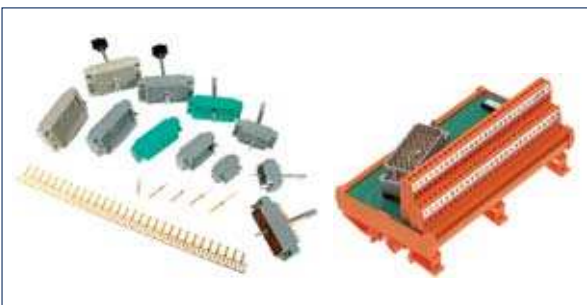
RJ 45 and **USB modules** implement the standardized **RJ45/USB** connectors from computer components, laptops or modems on screw PCB terminals. They can be mounted with the compact **RS-SPO** profile on the **TS 35** rail.



Signal lines can be implemented with **SD modules**, using male or female connectors, according to IEC 807-2/DIN 41652, on screw or tension-spring PCB terminals. The interface modules are equipped with their respective counterparts, which are available with from 9 to 37 poles. The **SD-LA modules** also feature a LED status display.



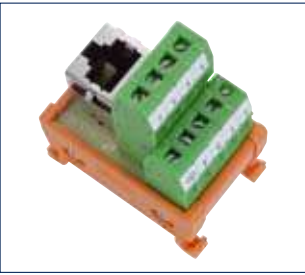
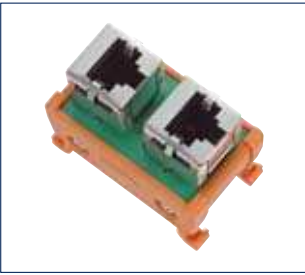
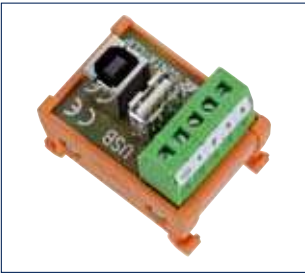
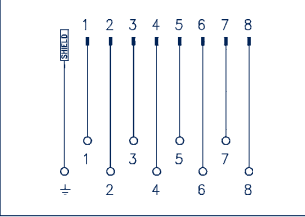
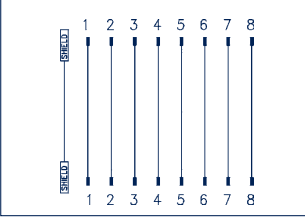
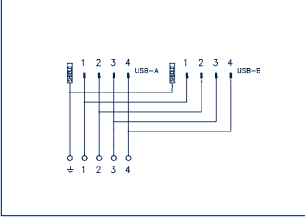
The **FBK modules** enable the implementation of pre-assembled cables with connectors (from 10 to 64 poles) according to IEC 603-1/DIN 41651, for use with screw or tension-spring PCB terminals. The **FBK-LA modules** also feature a LED status display.



The **OE** interface modules make use of the **EDAC** “hermaphrodite” multi-pole plug (Series 516), on screw-clamp connections. This results in excellent shock and vibration resistance. The offset arrangement of the connector means that the neighboring modules will not be impaired. The **EDAC** connector is compatible with the **ELCO** 8016 connector series.

Interface modules RJ 45 USB

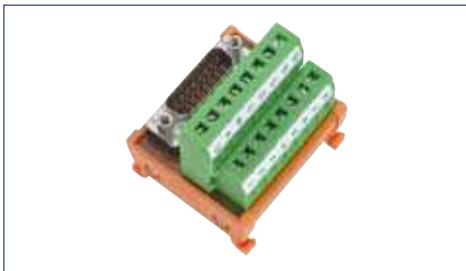
- Mount on TS 35
- RJ 45 module available in shielded and unshielded design
- USB modules features type A and type B connections
- Width: 47 mm

| | RJ 45 | RJS 45-RJS 45 | USB-AB |
|-----------------------------------|---|--|---|
| |  |  |  |
| | Circuit diagram | Circuit diagram | Circuit diagram |
| |  |  |  |
| Type | RJS 45 (shielded) | RJS 45-RJS 45 (shielded) | USB-AB |
| Cat. no./Qty. p.pck. | 15256.2 / 1 | 15775.2 / 1 | 15387.2 / 1 |
| Size (L x W x H) with TS 35 x 7.5 | 47 x 31 x 61 mm | 27 x 47 x 44 mm | 47 x 33 x 48 mm |
| Weight | 76 g | 30 g | 32 g |
| Type | RJU 45 (unshielded) | | |
| Cat. no./Qty. p.pck. | 15255.2 / 1 | | |
| Size (L x W x H) with TS 35 x 7.5 | 47 x 31 x 61 mm | | |
| Weight | 76 g | | |
| General information | | | |
| DIN-VDE specifications | DIN EN 50178; DIN VDE 0110, pollution degree 2, overvoltage category III | DIN EN 50178; DIN VDE 0110, pollution degree 2, overvoltage category III | DIN EN 50178; DIN VDE 0110, pollution degree 2, overvoltage category III |
| Operating temperature | -20 to +50°C | -20 to +50°C | -20 to +50°C |
| Test voltage | 0.75 kV | 0.75 kV | 0.75 kV |
| Insulation stripping length | 7 mm | - | 7 mm |
| Connection cross-section | 0.2-2.5 mm ² | - | 0.2-2.5 mm ² |
| Screw-clamp connection | AWG 22-14 | - | AWG 22-14 |
| Connection data | | | |
| Input voltage | 125 V AC/DC | 125 V AC/DC | 30 V AC/DC |
| Rated current | 1 A | 1 A | 1 A |
| Contact | | | |
| Durability | 750 plugging cycles | 750 plugging cycles | 1500 plugging cycles |
| Contact material | phosphorus bronze 1.27 µm Au over 1.27 µm Ni | phosphorus bronze 1.27 µm Au over 1.27 µm Ni | CuAl with gold coating |
| Enclosure | nylon, black, UL 94 V-0 | nylon, black, UL 94 V-0 | Glass-fiber reinforced polyester, UL 94 V-0 |
| Category | CAT 3 | CAT 5 | - |

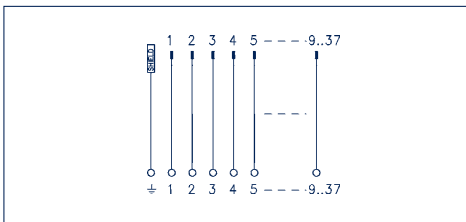
Interface modules SD...C

- Mount on TS 35
- D-subminiature into screw-clamp connection or on tension-spring connection (Z)
- D-subminiature connection according to MIL-C-24308/DIN 41652
- Module versions from 9 to 37 poles
- Male (S)/female (B) versions

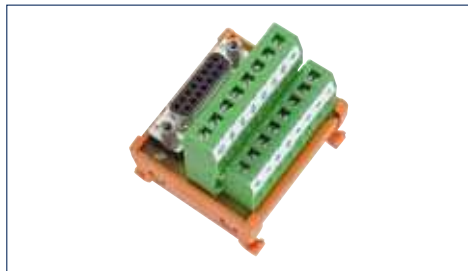
SD..S...C



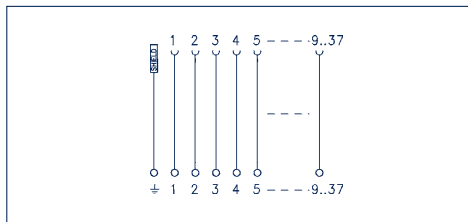
Circuit diagram



SD..B...C







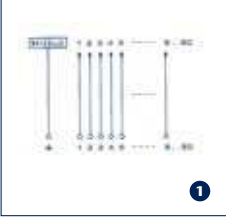
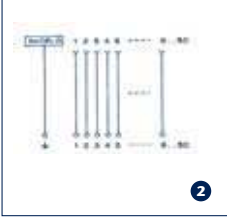
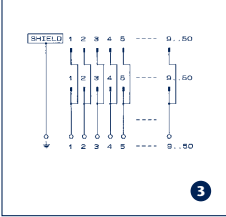
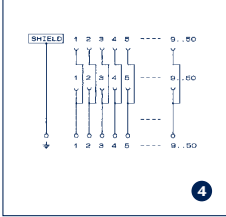
Circuit diagram



| Type | D-subminiature male plug | D-subminiature female plug |
|--|--|--|
| Cat. no./Qty. p.pck. | SD-S 9 C 15292.2/1 | SD-B 9 C 15294.2/1 |
| Size (L x W x H) with TS 35 x 7.5 | 47 x 37 x 61 mm | 47 x 37 x 61 mm |
| Weight | 50 g | 50 g |
| Type | SD-S 9 CZ | SD-B 9 CZ |
| Cat. no./Qty. p.pck. | 15293.2/1 | 15295.2/1 |
| Size (L x W x H) with TS 35 x 7.5 | 47 x 37 x 38 mm | 47 x 37 x 38 mm |
| Weight | 35 g | 35 g |
| Type | SD-S 15 C | SD-B 15 C |
| Cat. no./Qty. p.pck. | 15296.2/1 | 15298.2/1 |
| Size (L x W x H) with TS 35 x 7.5 | 47 x 51 x 61 mm | 47 x 51 x 61 mm |
| Weight | 72 g | 72 g |
| Type | SD-S 15 CZ | SD-B 15 CZ |
| Cat. no./Qty. p.pck. | 15297.2/1 | 15299.2/1 |
| Size (L x W x H) with TS 35 x 7.5 | 47 x 51 x 38 mm | 47 x 51 x 38 mm |
| Weight | 46 g | 46 g |
| Type | SD-S 25 C | SD-B 25 C |
| Cat. no./Qty. p.pck. | 15300.2/1 | 15302.2/1 |
| Size (L x W x H) with TS 35 x 7.5 | 47 x 78 x 61 mm | 47 x 78 x 61 mm |
| Weight | 107 g | 107 g |
| Type | SD-S 25 CZ | SD-B 25 CZ |
| Cat. no./Qty. p.pck. | 15301.2/1 | 15303.2/1 |
| Size (L x W x H) with TS 35 x 7.5 | 47 x 78 x 38 mm | 47 x 78 x 38 mm |
| Weight | 67 g | 67 g |
| Type | SD-S 37 C | SD-B 37 C |
| Cat. no./Qty. p.pck. | 15304.2/1 | 15306.2/1 |
| Size (L x W x H) with TS 35 x 7.5 | 47 x 107 x 61 mm | 47 x 107 x 61 mm |
| Weight | 148 g | 148 g |
| Type | SD-S 37 CZ | SD-B 37 CZ |
| Cat. no./Qty. p.pck. | 15305.2/1 | 15307.2/1 |
| Size (L x W x H) with TS 35 x 7.5 | 47 x 107 x 38 mm | 47 x 107 x 38 mm |
| Weight | 90 g | 90 g |
| General information | | |
| DIN-VDE specifications | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III |
| Operating temperature | -20 to +50°C | -20 to +50°C |
| Stripping length, screw/tension-spring | 7/6 mm | 7/6 mm |
| Connection | Screw/tension-spring (Z types) | Screw/tension-spring (Z types) |
| Conductor cross-section | 0.2-2.5mm ² | 0.2-2.5mm ² |
| Connection | AWG 22-14 | AWG 22-14 |
| Connection data | | |
| Status indication | - | - |
| Reverse polarity protection | - | - |
| Input voltage | 125 V AC/DC | 125 V AC/DC |
| Rated current | 1.5 A | 1.5 A |
| Male plug | D-subminiature acc. to MIL-C-24308/DIN 41652 | D-subminiature acc. to MIL-C-24308/DIN 41652 |
| Test voltage | 0.67 kV eff. | 0.67 kV eff. |

Interface modules SD

- Mount on TS 32/TS 35
- D-subminiature into screw-clamp connection
- D-subminiature connection according to MIL-C-24308/DIN 41652
- Module versions from 9 to 50 poles
- Male (S) / female (B) versions
- Width: 87 mm

| | SD | SD 2 double D-sub connection |
|-----------------------------------|---|---|
| |  |  |
| |  |  |
| | Circuit diagram | Circuit diagram |
| |  |  |
| |  |  |
| Type | D-subminiature male plug ① | D-subminiature male plug ③ |
| Cat. no./Qty. p.pck. | SD-S 50 5744.2 / 1 | SD 2-S 9 6301.2 / 1 |
| Size (L x W x H) with TS 35 x 7.5 | 87 x 140 x 72 mm | 87 x 37 x 72 mm |
| Weight | 248 g | 77 g |
| Type | SD-S 50/3 | SD 2-S 15 |
| Cat. no./Qty. p.pck. | 6413.2 / 1 | 6302.2 / 1 |
| Size (L x W x H) with TS 35 x 7.5 | 87 x 97 x 72 mm | 87 x 51 x 72 mm |
| Weight | 195 g | 104 g |
| Type | | SD 2-S 25 |
| Cat. no./Qty. p.pck. | | 6303.2 / 1 |
| Size (L x W x H) with TS 35 x 7.5 | | 87 x 77 x 72 mm |
| Weight | | 149 g |
| Type | | SD 2-S 37 |
| Cat. no./Qty. p.pck. | | 6304.2 / 1 |
| Size (L x W x H) with TS 35 x 7.5 | | 87 x 107 x 72 mm |
| Weight | | 205 g |
| Type | D-subminiature female plug ② | D-subminiature female plug ④ |
| Cat. no./Qty. p.pck. | SD-B 50 5749.2 / 1 | SD 2-B 9 6306.2 / 1 |
| Size (L x W x H) with TS 35 x 7.5 | 87 x 140 x 72 mm | 87 x 37 x 72 mm |
| Weight | 248 g | 77 g |
| Type | SD-B 50/3 | SD 2-B 15 |
| Cat. no./Qty. p.pck. | 6414.2 / 1 | 6307.2 / 1 |
| Size (L x W x H) with TS 35 x 7.5 | 87 x 97 x 72 mm | 87 x 51 x 72 mm |
| Weight | 195 g | 104 g |
| Type | | SD 2-B 25 |
| Cat. no./Qty. p.pck. | | 6308.2 / 1 |
| Size (L x W x H) with TS 35 x 7.5 | | 87 x 77 x 72 mm |
| Weight | | 149 g |
| Type | | SD 2-B 37 |
| Cat. no./Qty. p.pck. | | 6309.2 / 1 |
| Size (L x W x H) with TS 35 x 7.5 | | 87 x 107 x 72 mm |
| Weight | | 205 g |
| General information | | |
| DIN-VDE specifications | DIN EN 50178; DIN VDE 0110, pollution degree 2, overvoltage category III | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III |
| Operating temperature | -20 to +50 °C | -20 to +50 °C |
| Insulation stripping length | 7 mm | 7 mm |
| Connection | screw | screw |
| Conductor cross-section | 0.2-2.5 mm ² | 0.2-2.5 mm ² |
| Connection | AWG 22-14 | AWG 22-14 |
| Connection data | | |
| Status indication | - | - |
| Reverse polarity protection | - | - |
| Input voltage | 125 V AC/DC | 125 V AC/DC |
| Rated current | 1.5 A | 1 A |
| Male plug | D-sub connection acc. to MIL-C-24308/DIN 41652 | D-sub connection acc. to MIL-C-24308/DIN 41652 |
| Test voltage | 0.67 kV eff. | 0.67 kV eff. |

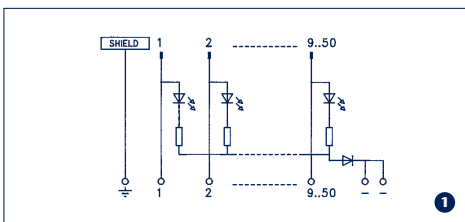
Interface modules SD

- Mount on TS 32/TS 35
- D-subminiature into screw-clamp connection
- D-subminiature connection according to MIL-C-24308/DIN 41652
- Module versions from 9 to 37 poles
- Male (S)/female (B) versions
- Width: 87 mm
- LED display

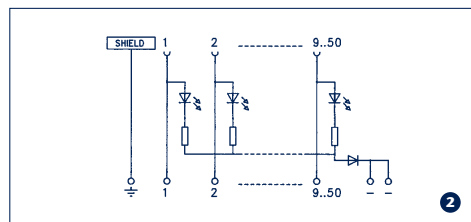
SD-LA with illuminated display



Circuit diagram



Circuit diagram



Type

Cat. no./Qty. p.pck.

Size (L x W x H) with TS 35 x 7.5

Weight

Type

Cat. no./Qty. p.pck.

Size (L x W x H) with TS 35 x 7.5

Weight

Type

Cat. no./Qty. p.pck.

Size (L x W x H) with TS 35 x 7.5

Weight

Type

Cat. no./Qty. p.pck.

Size (L x W x H) with TS 35 x 7.5

Weight

Type

Cat. no./Qty. p.pck.

Size (L x W x H) with TS 35 x 7.5

Weight

Type

Cat. no./Qty. p.pck.

Size (L x W x H) with TS 35 x 7.5

Weight

Type

Cat. no./Qty. p.pck.

Size (L x W x H) with TS 35 x 7.5

Weight

Type

Cat. no./Qty. p.pck.

Size (L x W x H) with TS 35 x 7.5

Weight

General information

DIN-VDE specifications

Operating temperature

Insulation stripping length

Connection

Conductor cross-section

Connection

Connection data

Status indication

Reverse polarity protection

Input voltage

Rated current

Male plug

Test voltage

D-subminiature male plug

SD S 9 LA

6520.2/1

87 x 41 x 72 mm

79 g

SD S 15 LA

6521.2/1

87 x 56 x 72 mm

105 g

SD S 25 LA

6135.2/1

87 x 83 x 72 mm

152 g

SD S 37 LA

6522.2/1

87 x 112 x 72 mm

203 g

D-subminiature female plug

SD B 9 LA

6524.2/1

87 x 41 x 72 mm

79 g

SD B 15 LA

6525.2/1

87 x 56 x 72 mm

105 g

SD B 25 LA

6136.2/1

87 x 83 x 72 mm

152 g

SD B 37 LA

6526.2/1

87 x 112 x 72 mm

203 g

DIN EN 50178; DIN VDE 0110, pollution degree 2, overvoltage category III

-20 to +50°C

7 mm

screw

0.2-2.5mm²

AWG 22-14

green LED

diode 1 N 4007

24 V DC

1 A

D-subminiature connection acc. to MIL-C-24308/DIN 41652

0.67 kV eff.

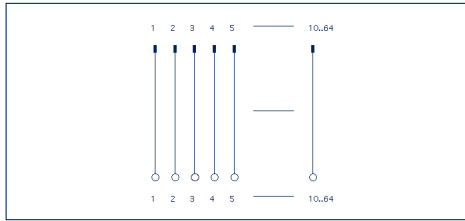
Interface modules FBK...C

- Mount on TS 35
- Flat ribbon cable into screw-clamp connection or on tension-spring connection (Z)
- Male plug connection according to DIN 41651
- Module versions from 10 to 64 poles
- Ejector mechanism
- Width: 47 mm

FBK... C



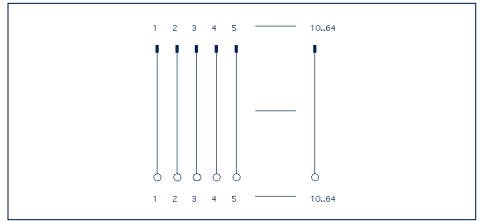
Circuit diagram



FBK... CZ



Circuit diagram



| | |
|-----------------------------------|-----------------------------|
| Type | Cat. no./Qty. p.pck. |
| Size (L x W x H) with TS 35 x 7.5 | |
| Weight | |
| Type | Cat. no./Qty. p.pck. |
| Size (L x W x H) with TS 35 x 7.5 | |
| Weight | |
| Type | Cat. no./Qty. p.pck. |
| Size (L x W x H) with TS 35 x 7.5 | |
| Weight | |
| Type | Cat. no./Qty. p.pck. |
| Size (L x W x H) with TS 35 x 7.5 | |
| Weight | |
| Type | Cat. no./Qty. p.pck. |
| Size (L x W x H) with TS 35 x 7.5 | |
| Weight | |
| Type | Cat. no./Qty. p.pck. |
| Size (L x W x H) with TS 35 x 7.5 | |
| Weight | |
| Type | Cat. no./Qty. p.pck. |
| Size (L x W x H) with TS 35 x 7.5 | |
| Weight | |
| Type | Cat. no./Qty. p.pck. |
| Size (L x W x H) with TS 35 x 7.5 | |
| Weight | |
| Type | Cat. no./Qty. p.pck. |
| Size (L x W x H) with TS 35 x 7.5 | |
| Weight | |
| General information | |
| DIN-VDE specifications | |
| Operating temperature | |
| Insulation stripping length | |
| Connection | |
| Connection cross-section | |
| Connection | |
| Input data | |
| Status indication | |
| Reverse polarity protection | |
| Input voltage | |
| Rated current | |
| Male plug | |
| Test voltage | |

| | |
|--|------------------|
| FBK 10C | 15272.2/1 |
| 47 x 36 x 61 mm | |
| 47 g | |
| FBK 14C | 15274.2/1 |
| 47 x 46 x 61 mm | |
| 61 g | |
| FBK 16C | 15276.2/1 |
| 47 x 51 x 61 mm | |
| 68 g | |
| FBK 20C | 15278.2/1 |
| 47 x 63 x 61 mm | |
| 82 g | |
| FBK 26C | 15280.2/1 |
| 47 x 77 x 61 mm | |
| 102 g | |
| FBK 34C | 15282.2/1 |
| 47 x 96 x 61 mm | |
| 130 g | |
| FBK 40C | 15284.2/1 |
| 47 x 113 x 61 mm | |
| 151 g | |
| FBK 50C | 15286.2/1 |
| 47 x 138 x 61 mm | |
| 184 g | |
| FBK 60C | 15288.2/1 |
| 47 x 169 x 61 mm | |
| 222 g | |
| FBK 64C | 15290.2/1 |
| 47 x 169 x 61 mm | |
| 232 g | |
| DIN EN 50178; DIN VDE 0110, pollution degree 2, overvoltage category III | |
| -20 to +50°C | |
| 7 mm | |
| Screw-clamp connection | |
| 0.2-2.5 mm ² | |
| AWG 22-14 | |
| - | |
| - | |
| 125 V AC/DC | |
| 1 A | |
| Flat ribbon cable connection EN 60603-13/DIN 41651 | |
| 0.67 kV eff. | |

| | |
|--|------------------|
| FBK 10CZ | 15273.2/1 |
| 47 x 36 x 38 mm | |
| 32 g | |
| FBK 14CZ | 15275.2/1 |
| 47 x 46 x 38 mm | |
| 43 g | |
| FBK 16CZ | 15277.2/1 |
| 47 x 51 x 38 mm | |
| 48 g | |
| FBK 20CZ | 15279.2/1 |
| 47 x 63 x 38 mm | |
| 58 g | |
| FBK 26CZ | 15281.2/1 |
| 47 x 77 x 38 mm | |
| 68 g | |
| FBK 34CZ | 15283.2/1 |
| 47 x 96 x 38 mm | |
| 80 g | |
| FBK 40CZ | 15285.2/1 |
| 47 x 113 x 38 mm | |
| 88 g | |
| FBK 50CZ | 15287.2/1 |
| 47 x 138 x 38 mm | |
| 99 g | |
| FBK 60CZ | 15289.2/1 |
| 47 x 169 x 38 mm | |
| 122 g | |
| FBK 64CZ | 15291.2/1 |
| 47 x 169 x 38 mm | |
| 128 g | |
| DIN EN 50178; DIN VDE 0110, pollution degree 2, overvoltage category III | |
| -20 to +50°C | |
| 6 mm | |
| Tension-spring connection | |
| 0.2-2.5 mm ² | |
| AWG 22-14 | |
| - | |
| - | |
| 125 V AC/DC | |
| 1 A | |
| Flat ribbon cable connection EN 60603-13/DIN 41651 | |
| 0.67 kV eff. | |

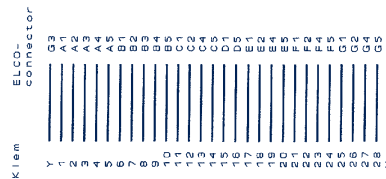
Interface modules OE-E

- Mount on TS 32/TS 35
- ELCO plug connector into screw-clamp connection
- ELCO series 8027
- Angled connector position allows easy mounting of the cables
- "Left" and "right" versions are available

OE-E 28

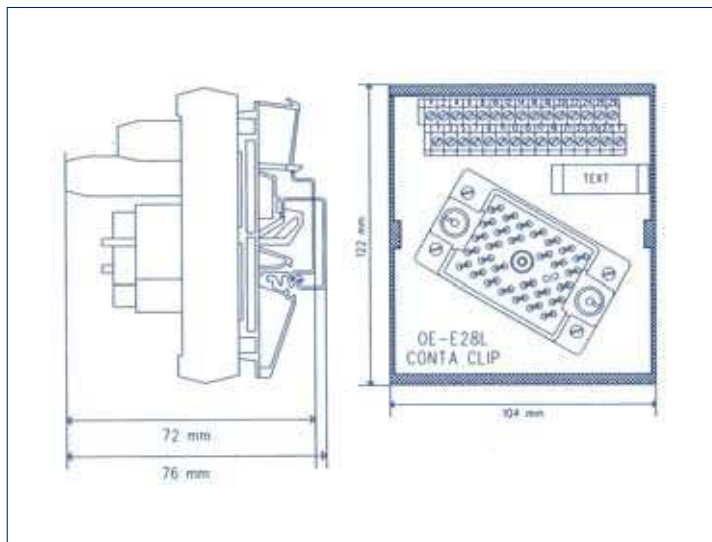


Circuit diagram

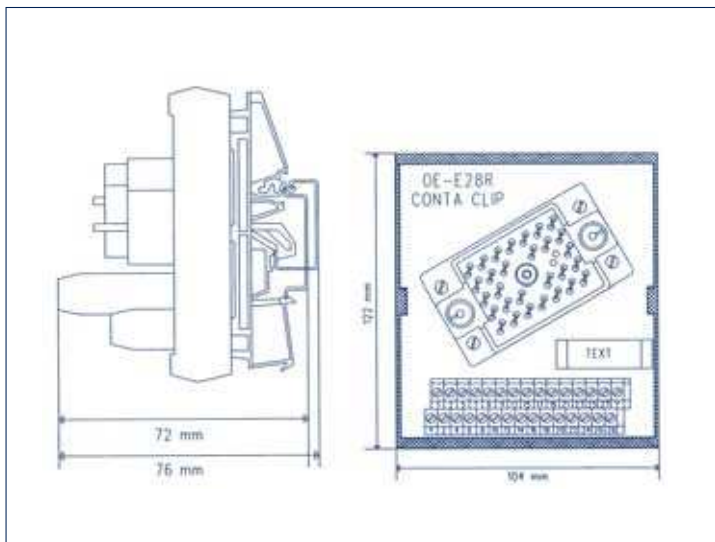


| Type | OE-E 28 L | OE-E 28 R |
|---|--|---|
| Cat. no./Qty. p.pck. | 7799.2/1 | 7800.2/1 |
| Size (L x W x H) with TS 35 x 7.5 | 122 x 90 x 72 mm | 122 x 90 x 72 mm |
| Weight | 246 g | 254 g |
| General information | | |
| DIN-VDE specifications | DIN EN 50178: 1997, DIN VDE 0110, pollution degree 2, overvoltage category III | DIN EN 50178:1997, DIN VDE 0110, pollution degree 2, overvoltage category III |
| Test voltage | 0.8 kV | 0.8 kV |
| Operating temperature | -20 to +55°C | -20 to +55°C |
| Insulation stripping length | 7 mm | 7 mm |
| Connection | Screw-clamp connection | Screw-clamp connection |
| Conductor cross-section | 0.2-2.5 mm ² | 0.2-2.5 mm ² |
| Connection | AWG 22-14 | AWG 22-14 |
| Connection data | | |
| Pin block and position | 8027-030 left | 8027-030 right |
| Pole count | 28 + shield | 28 + shield |
| Polarization code of male plug connector | 1-1 (changeable) | 1-1 (changeable) |
| Input voltage | 250 V AC/DC | 250 V AC/DC |
| Max. rated current per pole | 2 A | 2 A |
| Max. total current | 28 A | 28 A |
| Male plug | ELCO connection | ELCO connection |
| Clearance and creepage distances: ELCO plug PCB | EN 50020/DIN VDE 0170/171 section 7 DIN VDE 0110 | EN 50020/DIN VDE 0170/171 section 7 DIN VDE 0110 |

Module size



Module size



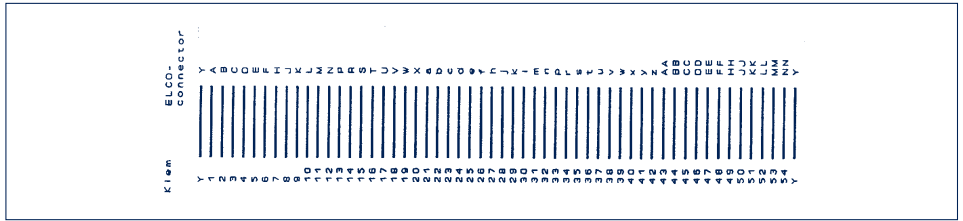
Interface modules OE-E

- Mount on TS 32/TS 35
- EDAC plug connector into screw-clamp connection
- The EDAC series 516 is 100% compatible to the ELCO 8016
- Angled connector position allows easy mounting of the cables
- "Left" and "right" versions are available

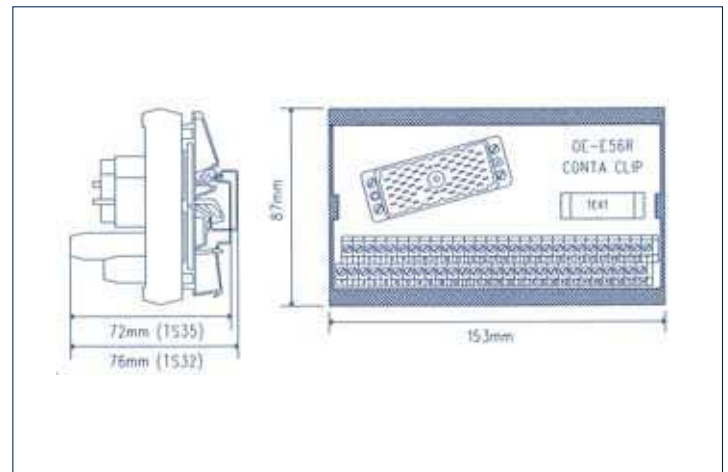
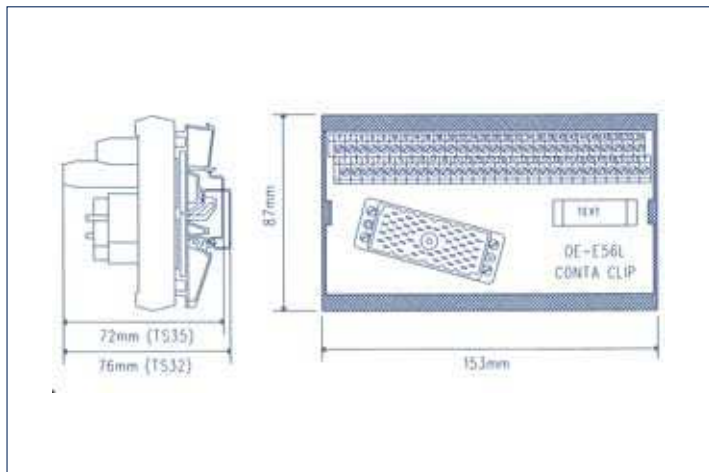
OE-E 38/E 56

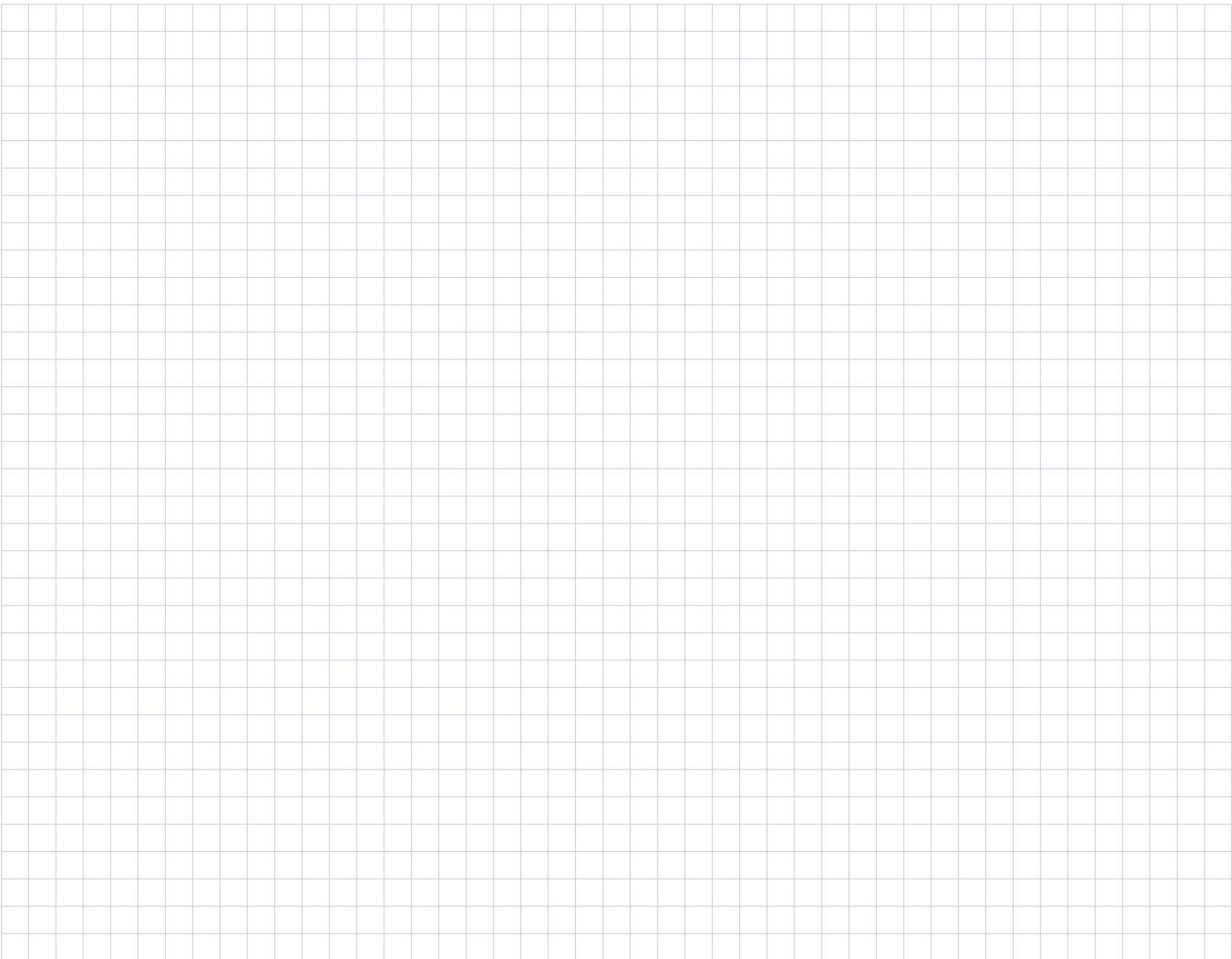


Circuit diagram



| Type | OE-E 38/36 L | OE-E 38/36 R | OE-E 56 L | OE-E 56 R |
|---|---|---|---|---|
| Cat. no./Qty. p.pck. | 15351.2/1 | 15350.2/1 | 15090.2/1 | 15091.2/1 |
| Size (L x W x H) with TS 35 x 7.5 | 122 x 107 x 72 mm | 122 x 107 x 72 mm | 122 x 153 x 72 mm | 122 x 153 x 72 mm |
| Weight | 272 g | 272 g | 295 g | 295 g |
| General information | | | | |
| DIN-VDE specifications | DIN EN 50178:1997, DIN VDE 0110, pollution degree 2, overvoltage category III | DIN EN 50178:1997, DIN VDE 0110, pollution degree 2, overvoltage category III | DIN EN 50178:1997, DIN VDE 0110, pollution degree 2, overvoltage category III | DIN EN 50178:1997, DIN VDE 0110, pollution degree 2, overvoltage category III |
| Test voltage | 0.8 kV | 0.8 kV | 0.8 kV | 0.8 kV |
| Operating temperature | -20 to +55°C | -20 to +55°C | -20 to +55°C | -20 to +55°C |
| Insulation stripping length | 7 mm | 7 mm | 7 mm | 7 mm |
| Connection | Screw-clamp connection | Screw-clamp connection | Screw-clamp connection | Screw-clamp connection |
| Conductor cross-section | 0.2-2.5 mm ² | 0.2-2.5 mm ² | 0.2-2.5 mm ² | 0.2-2.5 mm ² |
| Connection | AWG 22-14 | AWG 22-14 | AWG 22-14 | AWG 22-14 |
| Connection data | | | | |
| Pin block and position | 516-038 left | 516-038 right | 516-056 left | 516-056 right |
| Pole count | 36 + shield | 36 + shield | 54 + shield | 54 + shield |
| Polarization code of male plug connector | 1-1 (changeable) | 1-1 (changeable) | 4-4 (changeable) | 4-4 (changeable) |
| Input voltage | 250 V AC/DC | 250 V AC/DC | 250 V AC/DC | 250 V AC/DC |
| Max. rated current per pole | 2 A | 2 A | 2 A | 2 A |
| Max. total current | 36 A | 36 A | 56 A | 56 A |
| Male plug | EDAC connection | EDAC connection | EDAC connection | EDAC connection |
| Clearance and creepage distances: EDAC plug | EN 50020/DIN VDE 0170/171 section 7 | EN 50020/DIN VDE 0170/171 section 7 | EN 50020/DIN VDE 0170/171 section 7 | EN 50020/DIN VDE 0170/171 section 7 |
| PCB | DIN VDE 0110 | DIN VDE 0110 | DIN VDE 0110 | DIN VDE 0110 |





Converter Units

Whether it is in manufacturing, electrical machine and plant instrumentation, control engineering, power distribution, building automation, or process engineering – everywhere its important to guarantee that the signal exchange between the peripheral devices and the upper-level central control and instrumentation systems remains potential-free and operationally safe.

There are standardized electrical signal strengths which are typical for industrial processes. Current levels from 0 to 20 mA, 4 to 20 mA, or voltage levels from 0 to 10 V have become established as the standard output or input levels of sensors or actuators of varying physical sizes.

CONTA-CLIP offers a wide variety of different signal converters and different designs. These cover most conceivable applications.



Converter Units



Signal converters CML

Thanks to their thin form (6.2 mm), these converter units can be integrated into a mounted-rail control design where space is tight. It does not matter if they are voltage and current signals (**CML-UI-UI**), potentiometer signals (**CML-POT-UI**) or temperature signals from **PT 100** sensors (**CML-PT100-UI**). For the signal converters, there are always two standardized output signals available: signals 0-20 mA or 4-20 mA and 0-10 V. They can be converted easily with DIP switches, and offer an externally-accessible option for calibration.



Multi-functional signal converters CMS

The **CML** signal converter was developed to convert analog and frequency-based signals from a field sensor to a standard signal for the controls in a switchgear cabinet. It is a multi-functional converter in a compact closed housing. All the common conversions are selectable directly on the component with DIP switches (current, voltage and frequency). An integrated three-way galvanic isolation separates the input and output circuits as well as the supply voltage. The module includes an additional digital output that can be used as an alarm indicator.



Signal conversion modules

The signal conversion modules offer a variety of conversion options in the standard open-mounting profile for TS 35 and TS 32 mounting rails. Possible conversions include voltage and current signals (**CAE/I, U**), potentiometric signals (**CAE/POT**), or temperature signals (**IPT 100**).

Program overview

- Analog signal converter modules without galvanic isolation **CAE/I, U, CML**
- Analog signal converter modules with galvanic isolation **CAE/I, U/ G/ 230, CMS**
- Potentiometric modules **CAE/POT**
- Temperature converter units for **PT 100** and **PT 100-3** sensors, **CML**
- Analog signal converter units without external power supply **EG 3-SSW**

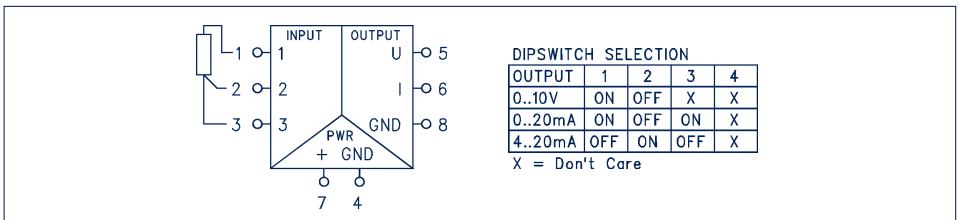
Temperature converter units CML

- Mount on TS 35
- Compact design, width: 6.2mm
- Screw-clamp connection
- Conversion of PT 100 3- or 2-wire sensor signal into standard analog signals
- Output: 0 to 10 V, 0 to 20 mA, or 4 to 20 mA
- Output signal is adjustable via DIP switch
- OFFSET and SPAN setting is always accessible
- Special temperature ranges available on request
- PT 500 and PT 1000 connections available on request

CML-PT 100-UI



Circuit diagram



| | |
|--|--|
| Type | CML-PT 100-UI |
| Cat. no./Qty. p.pck. | 15752.2/1 |
| Temperature range | -50 to +50°C |
| Type | CML-PT 100-UI |
| Cat. no./Qty. p.pck. | 15701.2/1 |
| Temperature range | 0 to +100°C |
| Type | CML-PT 100-UI |
| Cat. no./Qty. p.pck. | 15753.2/1 |
| Temperature range | 0 to +200°C |
| Type | CML-PT 100-UI |
| Cat. no./Qty. p.pck. | 15754.2/1 |
| Temperature range | 0 to +300°C |
| Type | CML-PT 100-UI |
| Cat. no./Qty. p.pck. | 15755.2/1 |
| Temperature range | 0 to +400°C |
| Size (L x W x H) with TS 35 x 7.5 | 93.1 x 6.2 x 102.5 mm |
| Weight | 66 g |
| Color | grey |
| General information | |
| DIN-VDE specifications | DIN EN 50178:1987; DIN VDE 0110 pollution degree 2, overvoltage category III |
| Electro-magnetic compatibility | CE compliant |
| Protection class | IP 20 |
| Operating temperature | -20 to +55°C |
| Connection type | Screw-clamp connection |
| Insulation stripping length | 12 mm |
| Conductor cross-section | 0.2-2.5 mm ² |
| Screw-clamp connection | AWG 22-14 |
| Conversion error | < 0.2% of end value |
| Temperature coefficient | < 0.02%/K |
| Frequency limit (- 3dB) | 10 Hz |
| Power supply | 24 V DC -15% +10% / 40 mA |
| Input data | |
| Input signal | PT 100 (IEC 751 / EN 60751) 2- and 3-wire system |
| Conductor resistance | < 100 Ω |
| Supply current for PT 100 | 0.8 mA |
| Remarks: | first adjust wire, then span |
| Remarks: | when a 2-wire sensor is being used, connected terminals 2 and 3 |
| Output data | |
| Voltage of output signal | 0 to 10 V (default) |
| Max. voltage of output signal | approx. 11 V |
| Load resistance | > 1 kΩ |
| Current of outputs (adjustable via DIP switch) | 0 to 20 or 4 to 20 mA (default is 4 to 20 mA) |
| Max. output current | approx. 22 mA |
| Load resistance | < 500 Ω |
| Offset | < 10 mV/20 mA |
| Remarks: | The current and voltage output can not both be used simultaneously |

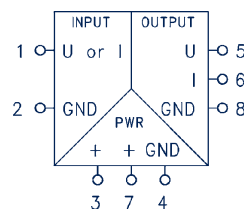
Voltage and current converter units CML

- Mount on TS 35
- Compact design, width: 6.2mm
- Screw-clamp connection
- Conversion of a standard analog signal into another analog signal
- Input: 1 to 10 V, 0 to 20 mA, or 4 to 20 mA
- Output: 0 to 10 V, 0 to 20 mA, or 4 to 20 mA
- Input and output signal are adjustable via DIP switch
- OFFSET and SPAN setting is always accessible

CML-UI-UI



Circuit diagram



DIPSWITCH SELECTION

| INPUT | S1.1 | S1.2 | S1.3 | S1.4 | S2.1 | S2.4 |
|---------|------|------|------|------|------|------|
| 0..1V | OFF | OFF | OFF | ON | OFF | ON |
| 0..10V | OFF | OFF | ON | OFF | OFF | ON |
| 0..20mA | OFF | ON | OFF | ON | OFF | ON |
| 4..20mA | ON | ON | OFF | ON | ON | OFF |

OUTPUT

| OUTPUT | S2.2 | S2.3 |
|---------|------|------|
| 0..10V | X | X |
| 0..20mA | OFF | OFF |
| 4..20mA | ON | ON |

X = Don't Care

Type

Cat. no./Qty. p.pck.

Size (L x W x H) with TS 35 x 7.5

Weight

General information

DIN-VDE specifications

Electro-magnetic compatibility

Protection class

Operating temperature

Connection type

Insulation stripping length

Conductor cross-section

Screw-clamp / tension-spring connection

Conversion error

Temperature coefficient

Frequency limit (-3dB)

Power supply

Input data

Input signal (adjustable via DIP switch)

Max. input signal

Input resistance

SPAN setting range

OFFSET setting range

Remarks:

Output data

Voltage of output signal

Max. voltage of output signal

Load resistance

Current of outputs (adjustable via DIP switch)

Max. output current

Load resistance

Offset

Remarks:

CML-UI-UI

15643.2/1

93.1 x 6.2 x 102.5 mm

66 g

DIN EN 50178:1987; DIN VDE 0110 pollution degree 2, overvoltage category III

CE compliant

IP 20

-20 to +55°C

Screw-clamp/tension-spring connection

12 mm/8 mm

0.2-2.5 mm²

AWG 22-14

< 0.2% of end value

< 0.02%/K

10 Hz

24 V DC -15% +10%/40 mA

0 to 10 V/0 to 20 mA/4 to 20 mA

30 V/50 mA/50 mA

100 kΩ/50 Ω/50 Ω

2%

2%

first adjust offset, then span

0 to 10 V (default)

approx. 11 V

> 1 kΩ

0 to 20 or 4 to 20 mA (default is 4 to 20 mA)

approx. 22 mA

< 500 Ω

< 10 mV/20 mA

when the current and voltage outputs are used simultaneously, the load resistance must be > 10 kΩ on the voltage output.

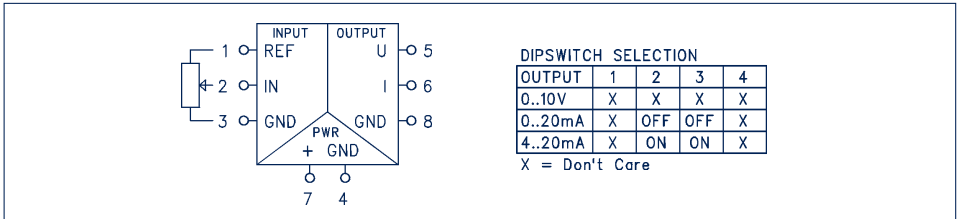
Potentiometric converter units CML

- Mount on TS 35
- Compact design, width: 6.2mm
- Screw-clamp connection
- Conversion of potentiometer signals into standard analog signals
- Suitable for 1 k to 20 k Ω potentiometer
- Output: 0 to 10 V, 0 to 20 mA, or 4 to 20 mA
- Output signal is adjustable via DIP switch
- OFFSET and SPAN setting is always accessible

CML-POT-UI



Circuit diagram



Type
Cat. no./Qty. p.pck.
 Size (L x W x H) with TS 35 x 7.5
 Weight

CML-POT-UI
15641.2/1
 93.1 x 6.2 x 102.5 mm
 66 g

General information
 DIN-VDE specifications
 Electro-magnetic compatibility
 Protection class
 Operating temperature
 Connection type
 Insulation stripping length
 Conductor cross-section
 Screw-clamp / tension-spring connection
 Conversion error
 Temperature coefficient
 Frequency limit (- 3dB)
 Power supply

DIN EN 50178:1987; DIN VDE 0110 pollution degree 2, overvoltage category III
 CE compliant
 IP 20
 -20 to +55°C
 Screw-clamp/tension-spring connection
 12 mm / 8mm
 0.2-2.5 mm²
 AWG 22-14
 < 0.2% of end value
 < 0.02%/K
 10 Hz
 24 V DC -15% +10% / 40 mA

Input data
 Potentiometer
 Minimal use of potentiometer
 for OFFSET/SPAN adjustment
 Remarks:

0 to 1 k Ω to 0 to 20 k Ω
 60%
 first adjust offset, then span

Output data
 Voltage of output signal
 Max. voltage of output signal
 Load resistance
 Current of outputs (adjustable via DIP switch)
 Max. output current
 Load resistance
 Offset
 Remarks:

0 to 10 V (default)
 approx. 11 V
 > 1 k Ω
 0 to 20 or 4 to 20 mA (default is 4 to 20 mA)
 approx. 22 mA
 < 500 Ω
 < 10 mV / 20 mA
 when the current and voltage outputs are used simultaneously, the load resistance must be > 10 k Ω on the voltage output.

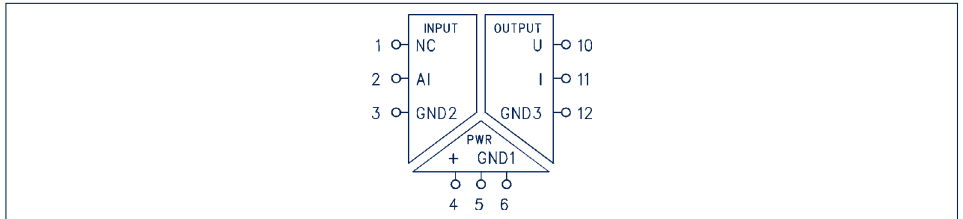
Multi-functional signal converter units CMS

- Mount on TS 35
- Compact design, width: 17.5 mm
- Three-way galvanic isolation
- Screw-clamp connection
- Multi-functional analog input (U-I)
- Multi-functional analog output (U-I)
- Output signal is adjustable via DIP switch
- Power supply: 24 VDC

CMS-UI-UI



Circuit diagram



Type

Cat. no./Qty. p.pck.

Size (L x W x H) with TS 35 x 7
Weight

General information

DIN-VDE specifications

Electro-magnetic compatibility

Operating temperature

Connection type

Insulation stripping length

Conductor cross-section

Screw-clamp connection

Conversion error

Temperature coefficient

Frequency limit (-3 dB)

Power supply

Insulation voltage input / output

Insulation voltage power supply / signal

Input data

Input signal (adjustable via DIP switch)

Max. input signal U / I

Input resistance U / I

Output data

Output signal (adjustable via DIP switch)

Load resistance U / I

Offset U / I

Max. output signal U / I

CMS-UI-UI

15650.2/1

99 x 17.5 x 114.5 mm
120 g

DIN EN 50178:1987; DIN VDE 0110 pollution degree 2, overvoltage category III

CE compliant

0 to +55°C

Pluggable screw-clamp connection

7 mm

0.2-2.5 mm²

AWG 22-14

< 0.1 %

< 0.01 % / K

10 Hz

24 V DC ±25 % / 50 mA

1 kV, 50 Hz, 1 min

1 kV, 50 Hz, 1 min

See table (default 0 to 10 V)

40 V DC / 25 mA

>200 kΩ / 50 Ω

See table (default 0 to 10 V)

> 1 kΩ / < 600 Ω

< 10 mV / 20 μA

approx. 11 V / 22 mA

| Input U | Output U (V) | | | I (mA) | | | |
|------------|-----------------|-------|-------|--------|------|------|------|
| | 0-10 V | 0-5 V | 1-5 V | 0-5 | 0-10 | 0-20 | 4-20 |
| 0... 1 V | x | x | x | x | x | x | x |
| 0... 2 V | x | x | x | x | x | x | x |
| 0... 2.5 V | x | x | x | x | x | x | x |
| 0... 5 V | x | x | x | x | x | x | x |
| 1... 5 V | x | x | x | x | x | x | x |
| 0... 10 V | x | x | x | x | x | x | x |
| 0... 20 V | x | x | x | x | x | x | x |
| 0... 40 V | x | x | x | x | x | x | x |
| I | | | | | | | |
| 0-5 mA | x | x | x | x | x | x | x |
| 0-10 mA | x | x | x | x | x | x | x |
| 0-20 mA | x | x | x | x | x | x | x |
| 4-20 mA | x | x | x | x | x | x | x |

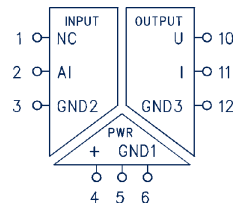
Multi-functional signal converter units CMS

- Mount on TS 35
- Compact design, width: 17.5 mm
- Three-way galvanic isolation
- Screw-clamp connection
- Multi-functional analog input (U-I)
- Multi-functional analog output (U-I)
- Output signal is adjustable via DIP switch
- Power supply: 24 VDC

CMS-UI60-UI



Circuit diagram



| | |
|---|--|
| Type | CMS-UI60-UI |
| Cat. no./Qty. p.pck. | 15885.2/1 |
| Size (L x W x H) with TS 35 x 7.5 | 99 x 17.5 x 114.5 mm |
| Weight | 120 g |
| General information | |
| DIN-VDE specifications | DIN EN 50178:1987; DIN VDE 0110 pollution degree 2, overvoltage category III |
| Electro-magnetic compatibility | CE compliant |
| Operating temperature | 0 to +55°C |
| Connection type | Pluggable screw-clamp connection |
| Insulation stripping length | 7 mm |
| Conductor cross-section | 0.2-2.5 mm ² |
| Screw-clamp connection | AWG 22-14 |
| Conversion error | < 0.1 % |
| Temperature coefficient | < 0.01 % / K |
| Frequency limit (- 3 dB) | 10 Hz |
| Power supply | 24 V DC ±25 % / 50 mA |
| Insulation voltage input / output | 1 kV, 50 Hz, 1 min |
| Insulation voltage power supply / signal | 1 kV, 50 Hz, 1 min |
| Input data | |
| Input signal (adjustable via DIP switch) | See table (default 0 to 10 V) |
| Max. input signal U / I | 40 V DC / 25 mA |
| Input resistance U / I | >200 kΩ / 50 Ω |
| Output data | |
| Output signal (adjustable via DIP switch) | See table (default 0 to 10 V) |
| Load resistance U / I | > 1 kΩ / < 600 Ω |
| Offset U / I | < 10 mV / 20 μA |
| Max. output signal U / I | approx. 11 V / 22 mA |

| | |
|---|--|
| Type | CMS-UI60-UI |
| Cat. no./Qty. p.pck. | 15885.2/1 |
| Size (L x W x H) with TS 35 x 7.5 | 99 x 17.5 x 114.5 mm |
| Weight | 120 g |
| General information | |
| DIN-VDE specifications | DIN EN 50178:1987; DIN VDE 0110 pollution degree 2, overvoltage category III |
| Electro-magnetic compatibility | CE compliant |
| Operating temperature | 0 to +55°C |
| Connection type | Pluggable screw-clamp connection |
| Insulation stripping length | 7 mm |
| Conductor cross-section | 0.2-2.5 mm ² |
| Screw-clamp connection | AWG 22-14 |
| Conversion error | < 0.1 % |
| Temperature coefficient | < 0.01 % / K |
| Frequency limit (- 3 dB) | 10 Hz |
| Power supply | 24 V DC ±25 % / 50 mA |
| Insulation voltage input / output | 1 kV, 50 Hz, 1 min |
| Insulation voltage power supply / signal | 1 kV, 50 Hz, 1 min |
| Input data | |
| Input signal (adjustable via DIP switch) | See table (default 0 to 10 V) |
| Max. input signal U / I | 40 V DC / 25 mA |
| Input resistance U / I | >200 kΩ / 50 Ω |
| Output data | |
| Output signal (adjustable via DIP switch) | See table (default 0 to 10 V) |
| Load resistance U / I | > 1 kΩ / < 600 Ω |
| Offset U / I | < 10 mV / 20 μA |
| Max. output signal U / I | approx. 11 V / 22 mA |

| Input U | Output U (V) | | | I (mA) | | | |
|-------------|--------------|-------|-------|--------|------|------|------|
| | 0-10 V | 0-5 V | 1-5 V | 0-5 | 0-10 | 0-20 | 4-20 |
| 0... 60 mV | x | x | x | x | x | x | x |
| 0... 100 mV | x | x | x | x | x | x | x |
| 0... 200 mV | x | x | x | x | x | x | x |
| 0... 300 mV | x | x | x | x | x | x | x |
| 0... 500 mV | x | x | x | x | x | x | x |
| 0... 1 V | x | x | x | x | x | x | x |
| 0... 2 V | x | x | x | x | x | x | x |
| 0... 2.5 V | x | x | x | x | x | x | x |
| 0... 5 V | x | x | x | x | x | x | x |
| 1... 5 V | x | x | x | x | x | x | x |
| 0... 10 V | x | x | x | x | x | x | x |
| 0... 20 V | x | x | x | x | x | x | x |
| 0... 40 V | x | x | x | x | x | x | x |
| I | | | | | | | |
| 0-5 mA | x | x | x | x | x | x | x |
| 0-10 mA | x | x | x | x | x | x | x |
| 0-20 mA | x | x | x | x | x | x | x |
| 4-20 mA | x | x | x | x | x | x | x |

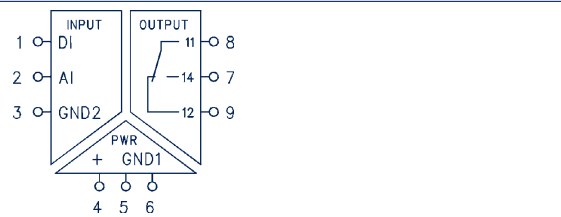
Multi-functional signal converter units CMS

- Mount on TS 35
- Compact design, width: 17.5 mm
- Three-way galvanic isolation
- Screw-clamp connection
- Multi-functional analog input (U-I)
- Relay output, 1 CO contact
- Output signal is adjustable via DIP switch
- Threshold and hysteresis settings are always accessible on the device
- Power supply: 24 VDC

CMS-UI-R



Circuit diagram



Type

Cat. no./Qty. p.pck.

Size (L x W x H) with TS 35 x 7.5

Weight

General information

DIN-VDE specifications

Electro-magnetic compatibility

Operating temperature

Connection type

Insulation stripping length

Conductor cross-section

Screw-clamp connection

Temperature coefficient

Power supply

Insulation voltage input / output

Insulation voltage power supply / signal

Input data

Input signal (adjustable via DIP switch)

Max. input signal U / I

Input resistance U / I

Output data

Relay contact

Threshold setting range

Hysteresis setting range

Function

Max. switching voltage

Max. continuous current/Inrush current

Max. power rating (ohmic load)

Contact material

Electrical life span at max. contact load

Mechanical life span

Test voltage coil/contact

CMS-UI-R

15884.2/1

99 x 17.5 x 114.5 mm

120 g

DIN EN 50178:1987; DIN VDE 0110 pollution degree 2, overvoltage category III

CE compliant

0 to +55°C

Pluggable screw-clamp connection

7 mm

0.2-2.5 mm²

AWG 22-14

< 0.02 % / K

24 V DC ±25 % / 50 mA

4 KV

1 KV, 50 Hz, 1 min

See table (default 0 to 10V)

40 V DC / 25 mA

>200 kΩ / 50 Ω

1 CO contact

1... 90%

1... 90%

failsafe / not failsafe (default setting: failsafe)

240 V AC

3 A / 5 A

1200 VA at 240 V AC, 5 A

AgNi

> 1.5 x 10⁵

> 15 x 10⁶

4 KV

| Input U | Output Relay |
|------------|--------------|
| 0... 1 V | x |
| 0... 2 V | x |
| 0... 2.5 V | x |
| 0... 5 V | x |
| 1... 5 V | x |
| 0... 10 V | x |
| 0... 20 V | x |
| 0... 40 V | x |
| I | |
| 0-5 mA | x |
| 0-10 mA | x |
| 0-20 mA | x |
| 4-20 mA | x |

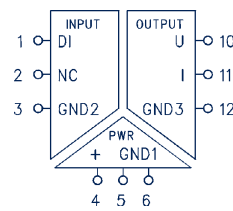
Multi-functional signal converter units CMS

- Mount on TS 35
- Compact design, width: 17.5 mm
- Three-way galvanic isolation
- Screw-clamp connection
- Multi-functional frequency input
- Multi-functional analog output (U-I)
- Output signal is adjustable via DIP switch
- Power supply: 24 VDC

CMS-F-UI



Circuit diagram



| | |
|--|----------------------|
| Type | CMS-F-UI |
| Cat. no./Qty. p.pck. | 15886.2/1 |
| Size (L x W x H) with TS 35 x 7.5 | 99 x 17.5 x 114.5 mm |
| Weight | 120 g |

| | |
|--|--|
| General information | |
| DIN-VDE specifications | DIN EN 50178:1987; DIN VDE 0110 pollution degree 2, overvoltage category III |
| Electro-magnetic compatibility | CE compliant |
| Operating temperature | 0 to +55 °C |
| Connection type | Pluggable screw-clamp connection |
| Insulation stripping length | 7 mm |
| Conductor cross-section | 0.2-2.5 mm ² |
| Screw-clamp connection | AWG 22-14 |
| Conversion error | < 0.2 % |
| Temperature coefficient | < 0.02 % / K |
| Power supply | 24 V DC ±25 % / 50 mA |
| Insulation voltage input / output | 1 kV, 50 Hz, 1 min |
| Insulation voltage power supply / signal | 1 kV, 50 Hz, 1 min |

| | |
|--|----------------------|
| Type | CMS-F-UI |
| Cat. no./Qty. p.pck. | 15886.2/1 |
| Size (L x W x H) with TS 35 x 7.5 | 99 x 17.5 x 114.5 mm |
| Weight | 120 g |

| | |
|--|--|
| General information | |
| DIN-VDE specifications | DIN EN 50178:1987; DIN VDE 0110 pollution degree 2, overvoltage category III |
| Electro-magnetic compatibility | CE compliant |
| Operating temperature | 0 to +55 °C |
| Connection type | Pluggable screw-clamp connection |
| Insulation stripping length | 7 mm |
| Conductor cross-section | 0.2-2.5 mm ² |
| Screw-clamp connection | AWG 22-14 |
| Conversion error | < 0.2 % |
| Temperature coefficient | < 0.02 % / K |
| Power supply | 24 V DC ±25 % / 50 mA |
| Insulation voltage input / output | 1 kV, 50 Hz, 1 min |
| Insulation voltage power supply / signal | 1 kV, 50 Hz, 1 min |

| | |
|---|---|
| Input data | |
| Input signal (adjustable via DIP switch) | See table (default 0 to 1.0 kHz) |
| Frequency range (adjustable via DIP switch) | 1.0 Hz to 10.0 kHz |
| Sensor | 2-wire, 3-wire PNP/NPN, NAMUR initiator, push-pull |
| Threshold / hysteresis | NAMUR: approx. 1.7 mA/ca. 0.2 mA; NPN: approx. 6.5 V/ca. 0.2 V; PNP: ca. 6.7 V/ca. 0.5 V |

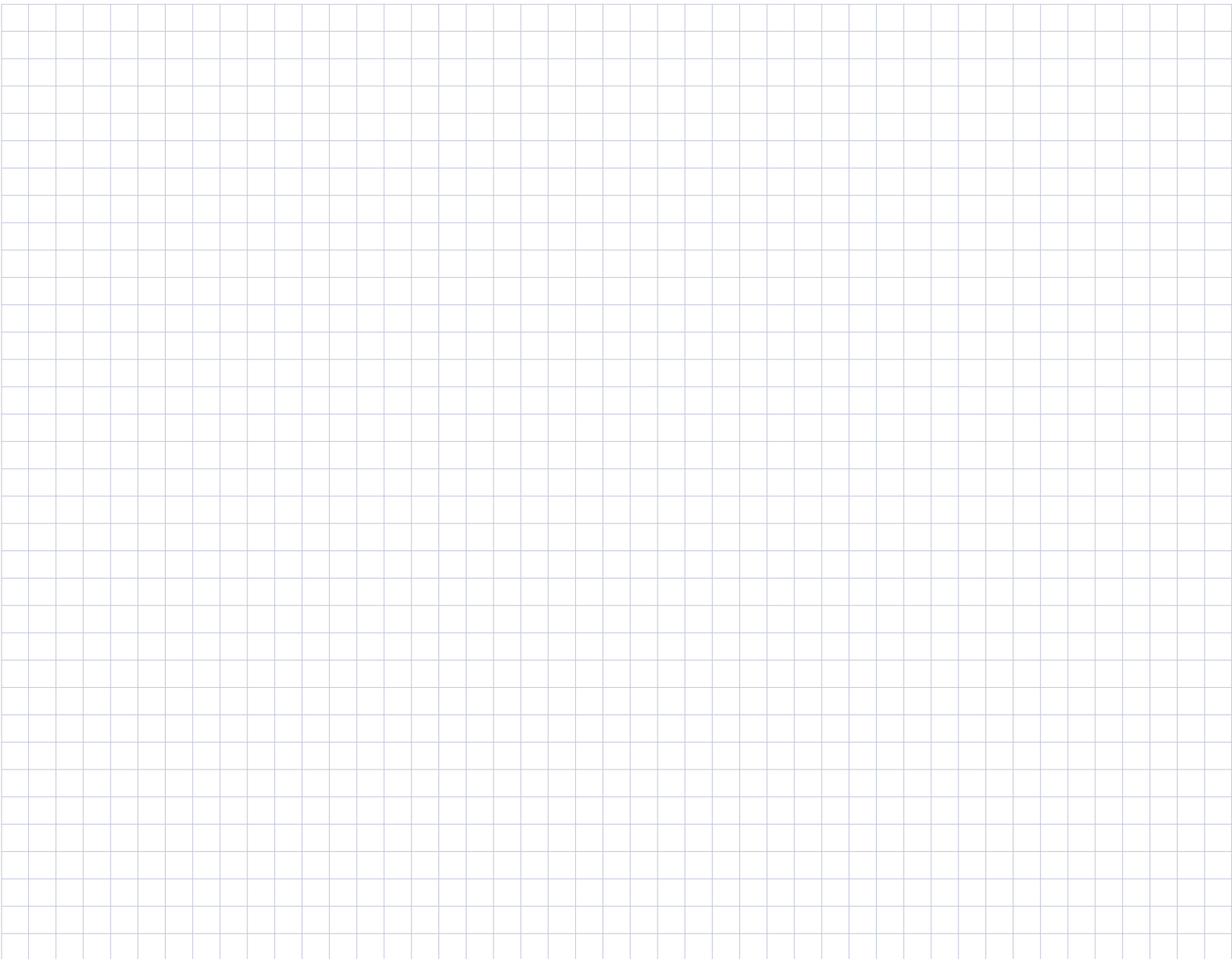
| | |
|---|---|
| Input data | |
| Input signal (adjustable via DIP switch) | See table (default 0 to 1.0 kHz) |
| Frequency range (adjustable via DIP switch) | 1.0 Hz to 10.0 kHz |
| Sensor | 2-wire, 3-wire PNP/NPN, NAMUR initiator, push-pull |
| Threshold / hysteresis | NAMUR: approx. 1.7 mA/ca. 0.2 mA; NPN: approx. 6.5 V/ca. 0.2 V; PNP: ca. 6.7 V/ca. 0.5 V |
| Resolution | 0.1 mHz resp. 5 ppm from measured value |

| | |
|--------------------------|--|
| Output data | |
| Output signal | See table (default 0 to 10 V) |
| Load resistance U / I | > 1 kΩ / < 600 Ω |
| Offset U / I | < 10 mV / 20 μA |
| Max. output signal U / I | < 15 V / 30 mA |
| Step response time | 350 ms + two times the period of the input frequency |



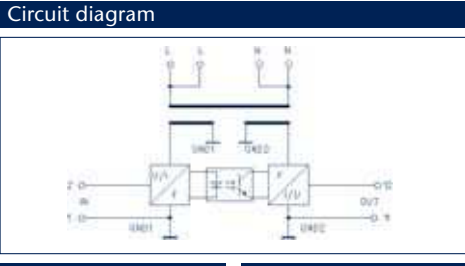
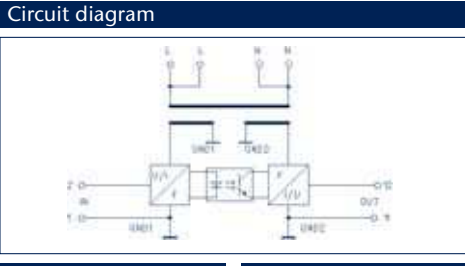
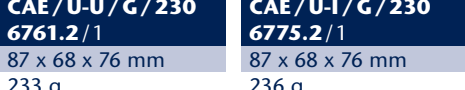
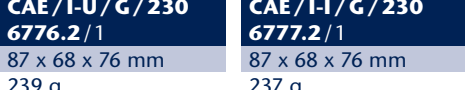


| | |
|--------------------------|--|
| Output data | |
| Output signal | See table (default 0 to 10 V) |
| Load resistance U / I | > 1 kΩ / < 600 Ω |
| Offset U / I | < 10 mV / 20 μA |
| Max. output signal U / I | < 15 V / 30 mA |
| Step response time | 350 ms + two times the period of the input frequency |

| Input | Output U | | I (mA) | |
|-------------|----------|-------|--------|------|
| | 0-10 V | 0-5 V | 0-20 | 4-20 |
| 0... 1.0 Hz | x | x | x | x |
| 0... 1.1 Hz | x | x | x | x |
| 0... 9.9 Hz | x | x | x | x |
| 0... 10 Hz | x | x | x | x |
| 0... 11 Hz | x | x | x | x |

| Input | Output U | | I (mA) | |
|----------------|----------|-------|--------|------|
| | 0-10 V | 0-5 V | 0-20 | 4-20 |
| 0... 99 Hz | x | x | x | x |
| 0... 100 Hz | x | x | x | x |
| 0... 110 Hz | x | x | x | x |
| 0... 990 Hz | x | x | x | x |
| 0... 1,000 Hz | x | x | x | x |
| 0... 1,100 Hz | x | x | x | x |
| 0... 9,900 Hz | x | x | x | x |
| 0... 10,000 Hz | x | x | x | x |



Analog signal converter modules with galvanic isolation CAE

| | CAE / U-U / G / 230 | CAE / U-I / G / 230 | CAE / I-U / G / 230 | CAE / I-I / G / 230 |
|---|--|---|---|--|
| <ul style="list-style-type: none"> Mount on TS 32/TS 35 Screw-clamp connection Conversion of a standard analog signals with galvanic isolation The power is supplied via a transformer with secondary separated coils |  |  |  |  |
| | Circuit diagram | Circuit diagram | Circuit diagram | Circuit diagram |
| |  |  |  |  |
| Type | CAE / U-U / G / 230 | CAE / U-I / G / 230 | CAE / I-U / G / 230 | CAE / I-I / G / 230 |
| Cat. no./Qty. p.pck. | 6761.2 / 1 | 6775.2 / 1 | 6776.2 / 1 | 6777.2 / 1 |
| Size (L x W x H) with TS 35 x 7.5 | 87 x 68 x 76 mm | 87 x 68 x 76 mm | 87 x 68 x 76 mm | 87 x 68 x 76 mm |
| Weight | 233 g | 236 g | 239 g | 237 g |
| General information | | | | |
| DIN-VDE specifications | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III | DIN EN 50178, DIN VDE 0110, pollution degree 2, overvoltage category III |
| Test voltage input-output | 4 kV | 4 kV | 4 kV | 4 kV |
| Operating temperature | 0 to +50°C | 0 to +50°C | 0 to +50°C | 0 to +50°C |
| Insulation stripping length | 7 mm | 7 mm | 7 mm | 7 mm |
| Connection cross-section | 0.2-2.5 mm ² | 0.2-2.5 mm ² | 0.2-2.5 mm ² | 0.2-2.5 mm ² |
| Screw-clamp connection | AWG 22-14 | AWG 22-14 | AWG 22-14 | AWG 22-14 |
| Conversion error | < 0.2% of end value | < 0.2% of end value | < 0.2% of end value | < 0.2% of end value |
| Temperature coefficient | < 0.02%/K | < 0.02%/K | < 0.02%/K | < 0.02%/K |
| Power supply | 230 V AC ± 10%/50 Hz | 230 V AC ± 10%/50 Hz | 230 V AC ± 10%/50 Hz | 230 V AC ± 10%/50 Hz |
| Transmission frequency | < 3 Hz | < 3 Hz | < 3 Hz | < 3 Hz |
| Input data | | | | |
| Input signal | 0 to 10 V | 0 to 10 V | 4 to 20 mA | 0 (4) to 20 mA |
| Max. input signal | 12 V | 12 V | 25 mA | 25 mA |
| Input resistance | > 100 kΩ | > 100 kΩ | 62,6 Ω | 50 Ω |
| Output data | | | | |
| Output signal | 0 to 10 V | 4 to 20 mA | 0 to 10 V | 4 to 20 mA |
| Max. output signal | 12 V | 24 mA | 12 V | 24 mA |
| Load resistance | > 1 kΩ | < 500 Ω | > 1 kΩ | < 500 Ω |

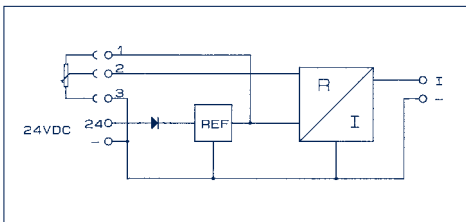
Potentiometric modules CAE/POT

- Mount on TS 32/TS 35
- Screw-clamp connection
- Conversion from potentiometer signal into a standard analog signal

CAE/POT-I



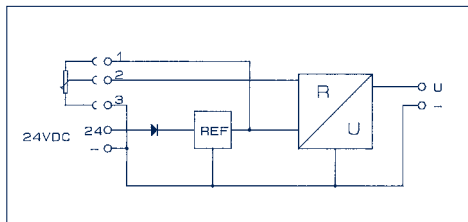
Circuit diagram



CAE/POT-U



Circuit diagram



Type
Cat. no./Qty. p.pck.
 Size (L x W x H) with TS 35 x 7.5
 Weight

General information
 DIN-VDE specifications

Operating temperature
 Insulation stripping length
 Conductor cross-section
 Screw-clamp connection
 Conversion error
 Temperature coefficient
 Power supply

Input data
 Potentiometer
 Min. potentiometer use for
 OFFSET/SPAN adjustment

Output data
 Output signal
 Load resistance
 Max. output voltage

CAE/POT-I
6766.2/1
 87 x 36 x 57 mm
 61 g

DIN EN 50178; DIN VDE 0110, pollution degree 2, overvoltage category III

0 to +55 °C
 7 mm
 0.2-2.5 mm²
 AWG 22-14
 < 0.2% of end value
 < 0.02% /K
 24 V DC ± 10% - 1,1 W

500 Ω to 20 kΩ
 60 %

(0) 4 to 20 mA
 < 500 Ω
 -

CAE/POT-U
6767.2/1
 87 x 36 x 57 mm
 67 g

DIN EN 50178; DIN VDE 0110, pollution degree 2, overvoltage category III

0 to +55 °C
 7 mm
 0.2-2.5 mm²
 AWG 22-14
 < 0.2% of end value
 < 0.02% /K
 24 V DC ± 10%-1.1 W

500 Ω to 20 kΩ
 60 %

0 to 10 V
 > 1 kΩ
 12 V

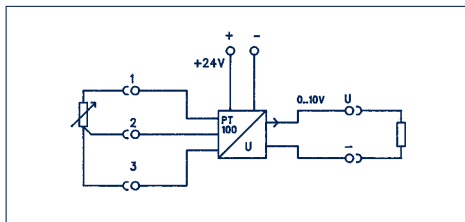
Temperature converter units PT 100

- Mount on TS 32/TS 35
- Screw-clamp connection
- Conversion of PT 100 3-wire signals into standard analog signals
- Output: 0 to 10 V or 4 to 20 mA
- Special temperature ranges available on request

PT 100-3/... /0-10



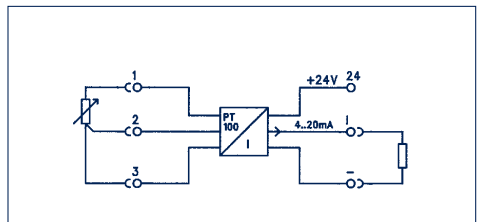
Circuit diagram



PT 100-3/... /4-20





Circuit diagram



| Type | PT 100-3/0... 100/0-10 | PT 100-3/0... 100/4-20 |
|-----------------------------------|--|--|
| Cat. no./Qty. p.pck. | 8509.0 / 1 | 8507.0 / 1 |
| Temperature range | 0... 100°C | 0... 100°C |
| Type | PT 100-3/0 ... 200/0-10 | PT 100-3/0 ... 200/4-20 |
| Cat. no./Qty. p.pck. | 15029.2 / 1 | 15031.2 / 1 |
| Temperature range | 0... 200°C | 0... 200°C |
| Type | PT 100-3/0 ... 300/0-10 | PT 100-3/0 ... 300/4-20 |
| Cat. no./Qty. p.pck. | 6821.0 / 1 | 15032.2 / 1 |
| Temperature range | 0... 300°C | 0... 300°C |
| Type | PT 100-3/0 ... 400/0-10 | PT 100-3/0 ... 400/4-20 |
| Cat. no./Qty. p.pck. | 6442.2 / 1 | 15033.2 / 1 |
| Temperature range | 0... 400°C | 0... 400°C |
| Type | PT 100-3/-50 ... +50/0-10 | PT 100-3/-50 ... +50/4-20 |
| Cat. no./Qty. p.pck. | 15028.2 / 1 | 15030.2 / 1 |
| Temperature range | -50... +50°C | -50... +50°C |
| Size (L x W x H) with TS 35 x 7.5 | 78 x 16.5 x 108 mm | 78 x 16.5 x 108 mm |
| Weight | 66 g | 66 g |
| General information | | |
| DIN-VDE specifications | DIN EN 50178; DIN VDE 0110, pollution degree 2, overvoltage category III | DIN EN 50178; DIN VDE 0110, pollution degree 2, overvoltage category III |
| Operating temperature | 0 to +55°C | 0 to +55°C |
| Insulation stripping length | 7 mm | 7 mm |
| Connection cross-section | 0.2-2.5 mm ² | 0.2-2.5 mm ² |
| Screw-clamp connection | AWG 22-14 | AWG 22-14 |
| Conversion error | < 0.4% of end value | < 0.4% of end value |
| Temperature coefficient | < 0.02%/K | < 0.02%/K |
| Power supply | 24 V DC ± 10% / 40 mA | 24 V DC ± 10% / 40 mA |
| Input data | | |
| Input signal | PT 100 3-wire temperature sensor, DIN 47360 | PT 100 3-wire temperature sensor, DIN 47360 |
| Conductor resistance | < 100 Ω | < 100 Ω |
| Supply current for PT 100 | 0.8 mA | 0.8 mA |
| Output data | | |
| Output signal | 0 to 10 V | 4 to 20 mA |
| Load resistance | > 2 kΩ | < 500 Ω |

Analog signal converter unit without external power supply EG 3-SSW

| | |
|--|---|
| <ul style="list-style-type: none"> · Mount on TS 32/TS 35 · Screw-clamp connection · Conversion of a standard analog signal value into a different value with galvanic isolation · Without external power supply | <p>EG 3-SSW</p>  |
| | <p>Circuit diagram</p>  |
| <p>Type Cat. no./Qty. p.pck. Size (L x W x H) with TS 35 x 7.5 Weight</p> | <p>EG 3-SSW 8391.0 / 1 87 x 22.5 x 84 mm 58 g</p> |
| <p>General information DIN-VDE specifications</p> <p>Test voltage input-output Operating temperature Insulation stripping length Connection cross-section Screw-clamp connection Conversion error Temperature coefficient</p> | <p>DIN EN 50178; DIN VDE 0110, pollution degree 2, overvoltage category III 500 V eff., 50 Hz, 1 min 0 to +50°C 7 mm 0.2-2.5 mm² AWG 22-14 < 0.4% of end value < 0.02%/K</p> |
| <p>Input data Input signal Max. input signal Max. voltage drop Uptake current</p> | <p>0 (4)... 20 mA 18 V / 50 mA restricted via Zener diode < 4 V < 20 mA (typ. 5 mA)</p> |
| <p>Output data Output signal Max. output signal Load resistance Power supply</p> | <p>0 (4) to 20 mA approx. 30 mA < 600 Ω -</p> |
| | |

Accessories

The **CONTA-CLIP** line of accessories is conceived and designed with the customer in mind. Our accessories allow you to move forward on a great number of technical applications with a minimum of effort and parts.



Accessories



Locking-base system RS-SP

CONTA-CLIP's RS-SP locking-base system can be customized to the length of the PCB because of its adjustable **RS-SP** extruded profile. In this way you can implement a variety of electronic switching tasks on the mounting rail.



Mounting rails TS

A wide variety of mounting rails are available, in two-meter lengths or as rail sections. They vary in shape, size and material. They fit on various rail types (C profile **TS 32**, Automatic profile **TS 35**), they are made from steel, copper or PVC, and are available in punched or unpunched versions.



End brackets ES/ZES

End brackets are necessary for fastening modules onto the mounting rail. They are put in at the beginning and at the end of the rail assembly. Depending on the mounting rail, they differ in the dimensions of the mounting foot and their screw-on or snap-on design.



Terminal markers / identification systems PMC

In electrical engineering, it is important to clearly label components and devices. For this reason we have designed the **PMC CONTA-CLIP** marking system. A printed version is available, as is a neutral one for individualized labeling.



Shield-connection clip SAB

The **SAB** shield-connection clip enables an unconventional but practical and quick connection between the cable shielding and the enclosure ground. The connections are low-ohm, and feature minimal inductive resistance. SAB clips come in various sizes and installation types.



Fuse elements SI

G fuses are available in the 5 x 20 and 6.3 x 32 sizes, and in the "slow-acting" and "fast" versions.



Device and installation markers Maxicard GS

This product line includes markers for devices and systems manufactured with the standard adhesive techniques. Available are neutral markers for marking with our plotter system EMS-2 or customised markers.



Adhesive device labels GKE

Device markers from **CONTA-CLIP** give clarity to the switchgear cabinet. They contribute to safety and aid in the quick identification of individual components. The **GKE** adhesive device labels come in three colors and in varying sizes. The high-quality polyester which we use guarantees a high level of resistance against solvents.

Locking-base system RS-SP

Extruded profiles can be used for the main holders of printed circuit boards.

The **RS-SP 1** and the **RS-SP 2** profiles have two PCB levels and are delivered in two-meter lengths. They can be easily shortened with a saw to the correct length. Of course we will also deliver the profiles according to your requirements. The profiles can be shortened freely, without rigid grid divisions. The individual fit of the enclosure profile to the electronics is thus guaranteed.

After you shorten the extruded profile to fit the desired module length or available space, you can mount the corresponding end plates and foot elements on to the module.

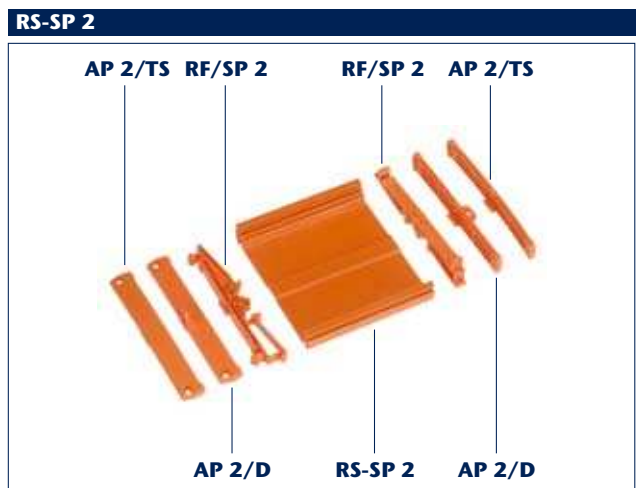
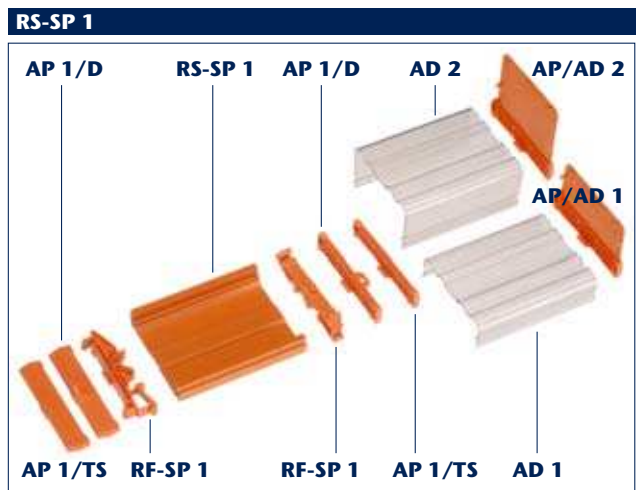
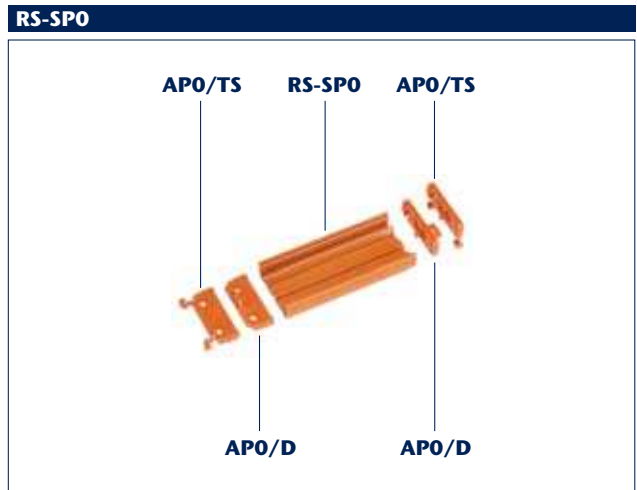
There are three graded profile versions available for different PCB widths: **RS-SP 0**, **RS-SP 1** and **RS-SP 2**.

Transparent cover profiles for the **RS-SP 1** system are available as **AD 1** (low version) and **AD 2** (high version) in one-meter lengths. The **AP/AD 1** (low version) and **AP/AD 2** (high version) end plates serve as holders. They are fastened to the cover profile by using the BS-AD fastening screws. Both the **RS-SP 1** and **RS-SP 2** can be labeled with the **SB** quick marking system by using the marking grooves which are intended for this purpose (refer to **CONTA-CONNECT** catalog).

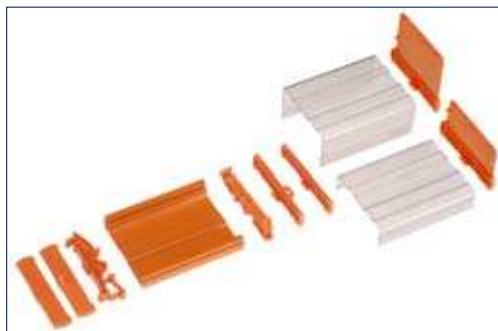
An **RS-SP** profile enclosure can consist of the following parts, depending on the requirements and assembly:

- **RS-SP** extruded profile (**RS-SPO**; **RS-SP 1**; **RS-SP 2** versions)
- **AP** end plates in varying versions:
 - AP/TS (RS-SPO) rail assembly on the TS 35 mounting rail
 - RS-SP 1 and RS-SP 2 on TS 32/TS 35 rail
 - AP/D direct assembly
 - AP/AD 1 low version is for fastening the transparent AD 1 cover
 - AP/AD 2 high version is for fastening the transparent AD 2 cover
- **RF** mounting foot for assembly on mounting rail with the RS-SP 1 profile and RS-SP 3, onto TS 32/TS 35 mounting rails
- **AD** transparent cover profile
 - AD 1 low version
 - AD 2 high version
- **BS-AD** fastening screws for fastening the AD 1 and AD 2 cover profiles
- **BS-RS** fastening screws for securing the AP end plates (types RS-SPO and RS-SP 2)

The **RS-SP** locking-base system is delivered in the standard orange color. Other colors are available upon request!



RS-SP locking-base system
RS-SP 0

RS-SP 1

Individual parts

| | Type | Cat. no. | Qty. p.pck. |
|--|-----------------------|---------------|-------------|
| Extruded profile | RS-SP 0 orange | 5675.3 | 1 |
| End plate/rail mounted | AP 0/TS orange | 3133.3 | 20 |
| End plate/directly mounted | AP 0/D orange | 3134.3 | 20 |
| End plate for AD 1 | – | – | – |
| End plate for AD 2 | – | – | – |
| BS-RS fastening screws | BS/RS | 4560.0 | 100 |
| AD 1 cover profile | – | – | – |
| AD 2 cover profile | – | – | – |
| BS-AD fastening screws for cover profile | – | – | – |
| Mounting foot for TS 32/35 | – | – | – |

| | Type | Cat. no. | Qty. p.pck. |
|--|-----------------------|---------------|-------------|
| Extruded profile | RS-SP 1 orange | 5680.3 | 1 |
| End plate/rail mounted | AP 1/TS orange | 5681.3 | 20 |
| End plate/directly mounted | AP 1/D orange | 5682.3 | 20 |
| End plate for AD 1 | AP/AD 1 | 5891.0 | 20 |
| End plate for AD 2 | AP/AD 2 | 5895.0 | 20 |
| BS-RS fastening screws | – | – | – |
| AD 1 cover profile | AD 1 | 5893.0 | 1 |
| AD 2 cover profile | AD 2 | 5894.0 | 1 |
| BS-AD fastening screws for cover profile | BS/AD | 2385.0 | 100 |
| Mounting foot for TS 32/35 | RF/SP 1 orange | 5683.0 | 20 |

Size

| | mm | Thickness mm |
|------------------------------|--------|--------------|
| PCB upper level | 42.5/– | 1.5 + 0.2 |
| PCB lower level | – | – |
| Total width | 46.5 | – |
| Length | 2000 | – |
| Height on TS 32 | – | – |
| Height on TS 35 | 27 | – |
| Height when directly mounted | 19,0 | – |
| Height of AD 1 | – | – |
| Height of AD 2 | – | – |

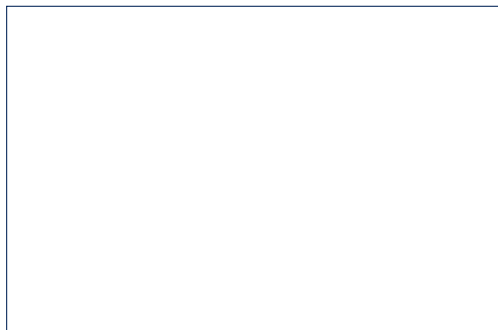
Size

| | mm | Thickness mm |
|------------------------------|-----------------|--------------|
| PCB upper level | 73 + 0.4 ./ 0.1 | 1.5 + 0.2 |
| PCB lower level | 68 + 0.4 ./ 0.1 | 1.5 + 0.2 |
| Total width | 84 | – |
| Length | 2000 | – |
| Height on TS 32 | 43 | – |
| Height on TS 35 | 40 | – |
| Height when directly mounted | 17 | – |
| Height of AD 1 | 25 | – |
| Height of AD 2 | 45 | – |

Material

| | |
|----------|-----------------------------------|
| Material | RS-SP = PVC AP/RF = PA 6.6-V 2 |
|----------|-----------------------------------|

| | |
|----------|-----------------------------------|
| Material | RS-SP = PVC AP/RF = PA 6.6-V 2 |
|----------|-----------------------------------|

RS-SP locking-base system
RS-SP 2

Individual parts

| | Type | Cat. no. | Qty. p.pck. |
|--|-----------------------|---------------|-------------|
| Extruded profile | RS-SP 2 orange | 5690.3 | 1 |
| End plate/rail mounted | AP 2/TS orange | 5691.3 | 20 |
| End plate/directly mounted | AP 2/D orange | 5692.3 | 20 |
| End plate for AD 1 | – | – | – |
| End plate for AD 2 | – | – | – |
| BS-RS fastening screws | BS/RS | 4560.0 | 100 |
| AD 1 cover profile | – | – | – |
| AD 2 cover profile | – | – | – |
| BS-AD fastening screws for cover profile | – | – | – |
| Mounting foot for TS 32/35 | RF/SP 2 orange | 5693.3 | 20 |

Size

| | mm | Thickness mm |
|------------------------------|--------------------|--------------|
| PCB upper level | 108.5 + 0.5 ./ 0.3 | 1.5 + 0.2 |
| PCB lower level | 100 + 0.5 ./ 0.1 | 1.5 + 0.2 |
| Total width | 119 | – |
| Length | 2000 | – |
| Height on TS 32 | 43 | – |
| Height on TS 35 | 40 | – |
| Height when directly mounted | 17 | – |
| Height of AD 1 | – | – |
| Height of AD 2 | – | – |





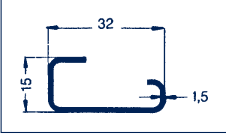
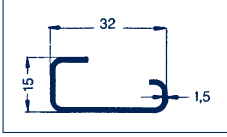
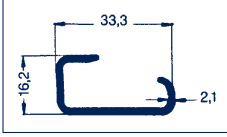
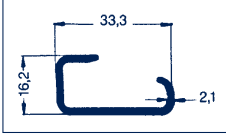

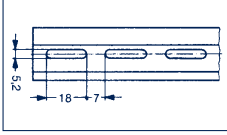






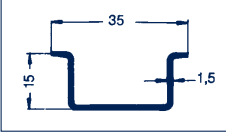
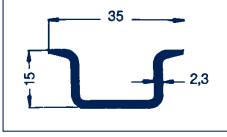
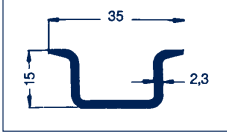
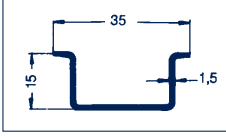
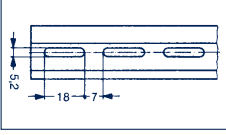
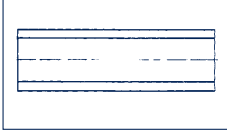
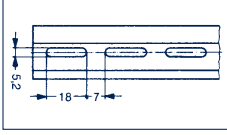
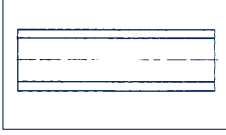
Material

| | |
|----------|-----------------------------------|
| Material | RS-SP = PVC AP/RF = PA 6.6-V 2 |
|----------|-----------------------------------|

Mounting rails TS

The design of the TS mounting rail complies with the following European norms: DIN EN 50045, 50022 and 50035.

The mounting rails are delivered in two-meter lengths. All mounting rails are also available in prepared (cut to length) versions.

| | | | | |
|--|---|---|---|--|
| | TS 32 | TS 32 | TS 32 | TS 32 |
| |  |  |  |  |
| |  |  |  |  |
| |  |  |  |  |
| | Type TS 32 Cat. no. 2025.0 Qty. p.pck. 2m Unpunched steel | Type TS 32 Cat. no. 2093.0 Qty. p.pck. 2m Punched steel | Type TS 32 Cat. no. 2371.0 Qty. p.pck. 2m Unpunched copper | Type TS 32 Cat. no. 2370.0 Qty. p.pck. 2m Unpunched aluminum |
| | TS 35 | TS 35 | TS 35 | TS 35 |
| |  |  |  |  |
| |  |  |  |  |
| |  |  |  |  |
| | Type TS 35x15 Cat. no. 2095.0 Qty. p.pck. 2m Punched steel | Type TS 35x15/2.3 Cat. no. 2038.0 Qty. p.pck. 2m Unpunched steel | Type TS 35x15/2.3 Cat. no. 2039.0 Qty. p.pck. 2m Punched steel | Type TS 35x15 Cat. no. 4561.0 Qty. p.pck. 2m Steel unpunched/galvanized |

Mounting rails TS

| | | | | | |
|----------------------------|------------------------|------------------------|----------------------------|----------------------------|------------------------|
| TS 35 | TS 35 | TS 35 | TS 35 | TS 35 | TS 35 |
| | | | | | |
| | | | | | |
| | | | | | |
| Type TS 35x7.5 | Type TS 35x7.5 | Type TS 35x7.5 | Type TS 35x7.5 | Type TS 35x7.5 | Type TS 35x15 |
| Cat. no. 2026.0 | Cat. no. 2094.0 | Cat. no. 2710.0 | Cat. no. 4562.0 | Cat. no. 4563.0 | Cat. no. 2027.0 |
| Qty. p.pck. 2m | Qty. p.pck. 2m | Qty. p.pck. 2m | Qty. p.pck. 2m | Qty. p.pck. 2m | Qty. p.pck. 2m |
| Unpunched steel | Punched steel | Unpunched aluminum | Steel unpunched/galvanized | Steel unpunched/galvanized | Unpunched steel |
| TS 35 | TS 35 | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Type TS 35x15 | Type TS 35x15 | | | | |
| Cat. no. 4564.0 | Cat. no. 2372.0 | | | | |
| Qty. p.pck. 2m | Qty. p.pck. 2m | | | | |
| Steel unpunched/galvanized | Unpunched PVC | | | | |

End brackets ES/ZES

| TS 35 end brackets | ES 35 TS 35 | ES 35/2/K TS 35 | ES 35/K/ST TS 35 | ES 32/35 Combi TS 35 |
|---|---|--|---|---|
| Insulation housing: polyamide 6.6 Mount on TS 35 |  |  |  |  |
| Dimensions (L x W x H) | | | | |
| TS 35 | 46 x 7.5 x 32 mm | 50 x 8 x 47 mm | 50 x 9.5 x 44 mm | 52 x 9.5 x 47 mm |
| Type | | | | |
| Type | ES 35 | ES 35/2/K | ES 35/K/ST | ES 32/35 Combi |
| Cat. no./Qty. p.pck. | 2005.2/50 | 2826.2/50 | 2828.0/50 | 1424.2/50 |
| Terminal width | 7.5 mm | 8 mm | 9.5 mm | 9.5 mm |

| TS 35 end brackets | ZES 35 TS 35 | ZES 35/2 TS 35 | | |
|---|--|---|--|--|
| Insulation housing: polyamide 6.6 Mount on TS 35 |  |  | | |
| Dimensions (L x W x H) | | | | |
| TS 35 | 59 x 6 x 39 mm | 49 x 5 x 34 mm | | |
| Type | | | | |
| Type | ZES 35 | ZES 35/2 | | |
| Cat. no./Qty. p.pck. | 3748.2/50 | 3811.2/50 | | |
| Terminal width | 6 mm | 5 mm | | |

| TS 32 end brackets | ES 32 TS 32 | ES 32/2/K TS 32 | ES 32/2/K/ST TS 32 | ES 32/35 Combi TS 32/TS 35 |
|---|---|--|---|---|
| Insulation housing: polyamide 6.6 Mount on TS 32 |  |  |  |  |
| Dimensions (L x W x H) | | | | |
| TS 32 | 27 x 7.5 x 44 mm | 48 x 8 x 49 mm | 50 x 9.5 x 44 mm | 52 x 9.5 x 49 mm |
| Type | | | | |
| Type | ES 32 | ES 32/2/K | ES 32/K/ST | ES 32/35 Combi |
| Cat. no./Qty. p.pck. | 2004.2/50 | 2825.2/50 | 2827.0/50 | 1424.2/50 |
| Terminal width | 7.5 mm | 8 mm | 9.5 mm | 9.5 mm |

Terminal markers | identification systems PMC

Pocket-Maxicard pullout versions



PMC, printed example **FW**
(consecutive horizontal)



PMC, printed example **FS**
(consecutive vertical)



PMC, printed example **GW**
(identical horizontal)




PMC, printed example **GS**
(identical vertical)

| Type | Cat. no. | Qty. p.pck. | Piece card | Type | Cat. no. | Qty. p.pck. | Piece card | Type | Cat. no. | Qty. p.pck. | Piece card |
|----------------------------------|----------|----------------|-----------------|----------------------------------|----------|----------------|-----------------|------------------------------------|----------|----------------|-----------------|
| PMC SB 5/50 neutral | 4600.7 | 500 | 50 | PMC SB 5/50 FS 801-850 | 4662.7 | 500 | 50 | PMC BSTR 6/30 FW 61-90 | 9120.7 | 300 | 30 |
| PMC SB 5/50 FW 1-10 | 4601.7 | 500 | 50 | PMC SB 5/50 FS 851-900 | 4663.7 | 500 | 50 | PMC BSTR 6/30 FW 91-120 | 9121.7 | 300 | 30 |
| PMC SB 5/50 FW 11-20 | 4602.7 | 500 | 50 | PMC SB 5/50 FS L1, L2, L3, N, PE | 4664.7 | 500 | 50 | PMC BSTR 6/30 FW 121-150 | 9122.7 | 300 | 30 |
| PMC SB 5/50 FW 21-30 | 4603.7 | 500 | 50 | PMC SB 5/50 FS U1, V1, W1, N, PE | 4665.7 | 500 | 50 | PMC BSTR 6/30 FW 151-180 | 9123.7 | 300 | 30 |
| PMC SB 5/50 FW 31-40 | 4604.7 | 500 | 50 | PMC SB 5/50 FS U1, V1, W1 | 4666.7 | 500 | 50 | PMC BSTR 6/30 FW 181-210 | 9124.7 | 300 | 30 |
| PMC SB 5/50 FW 41-50 | 4605.7 | 500 | 50 | PMC SB 5/50 FS U2, V2, W2, N, PE | 4667.7 | 500 | 50 | PMC BSTR 6/30 FW 211-240 | 9125.7 | 300 | 30 |
| PMC SB 5/50 FW 51-60 | 4606.7 | 500 | 50 | PMC SB 5/50 FS U2, V2, W2 | 4668.7 | 500 | 50 | PMC BSTR 6/30 FW 241-270 | 9126.7 | 300 | 30 |
| PMC SB 5/50 FW 61-70 | 4607.7 | 500 | 50 | PMC SB 5/50 FS X1-X10 | 4669.7 | 500 | 50 | PMC BSTR 6/30 FW 271-300 | 9127.7 | 300 | 30 |
| PMC SB 5/50 FW 71-80 | 4608.7 | 500 | 50 | PMC SB 5/50 GW 1 | 4670.7 | 500 | 50 | PMC BSTR 6/30 FW 301-330 | 9128.7 | 300 | 30 |
| PMC SB 5/50 FW 81-90 | 4609.7 | 500 | 50 | PMC SB 5/50 GW 2 | 4671.7 | 500 | 50 | PMC BSTR 6/30 FW 331-360 | 9129.7 | 300 | 30 |
| PMC SB 5/50 FW 91-100 | 4610.7 | 500 | 50 | PMC SB 5/50 GW 3 | 4672.7 | 500 | 50 | PMC BSTR 6/30 FW 361-390 | 9130.7 | 300 | 30 |
| PMC SB 5/50 FW 1-50 | 4611.7 | 500 | 50 | PMC SB 5/50 GW 4 | 4673.7 | 500 | 50 | PMC BSTR 6/30 FW 391-420 | 9131.7 | 300 | 30 |
| PMC SB 5/50 FW 51-100 | 4612.7 | 500 | 50 | PMC SB 5/50 GW 5 | 4674.7 | 500 | 50 | PMC BSTR 6/30 FW 421-450 | 9132.7 | 300 | 30 |
| PMC SB 5/50 FW 101-150 | 4613.7 | 500 | 50 | PMC SB 5/50 GW 6 | 4675.7 | 500 | 50 | PMC BSTR 6/30 FW 451-480 | 9133.7 | 300 | 30 |
| PMC SB 5/50 FW 151-200 | 4614.7 | 500 | 50 | PMC SB 5/50 GW 7 | 4676.7 | 500 | 50 | PMC BSTR 6/30 FW 481-510 | 9134.7 | 300 | 30 |
| PMC SB 5/50 FW 201-250 | 4615.7 | 500 | 50 | PMC SB 5/50 GW 8 | 4677.7 | 500 | 50 | PMC BSTR 6/30 FW 511-540 | 9135.7 | 300 | 30 |
| PMC SB 5/50 FW 251-300 | 4616.7 | 500 | 50 | PMC SB 5/50 GW 9 | 4678.7 | 500 | 50 | PMC BSTR 6/30 FW 541-570 | 9136.7 | 300 | 30 |
| PMC SB 5/50 FW 301-350 | 4617.7 | 500 | 50 | PMC SB 5/50 GW 0 | 4679.7 | 500 | 50 | PMC BSTR 6/30 FW L1, L2, L3, N, PE | 9137.7 | 300 | 30 |
| PMC SB 5/50 FW 351-400 | 4618.7 | 500 | 50 | PMC SB 5/50 GW X | 4680.7 | 500 | 50 | PMC BSTR 6/30 FW U1, V1, W1, N, PE | 9138.7 | 300 | 30 |
| PMC SB 5/50 FW 401-450 | 4619.7 | 500 | 50 | PMC SB 5/50 GW PE | 4681.7 | 500 | 50 | PMC BSTR 6/30 FW U1, V1, W1 | 9139.7 | 300 | 30 |
| PMC SB 5/50 FW 451-500 | 4620.7 | 500 | 50 | PMC SB 5/50 GW L1 | 4682.7 | 500 | 50 | PMC BSTR 6/30 FW U2, V2, W2, N, PE | 9140.7 | 300 | 30 |
| PMC SB 5/50 FW 501-550 | 4621.7 | 500 | 50 | PMC SB 5/50 GW L2 | 4683.7 | 500 | 50 | PMC BSTR 6/30 FW U2, V2, W2 | 9141.7 | 300 | 30 |
| PMC SB 5/50 FW 551-600 | 4622.7 | 500 | 50 | PMC SB 5/50 GW L3 | 4684.7 | 500 | 50 | PMC BSTR 6/30 FW X1-X10 | 9142.7 | 300 | 30 |
| PMC SB 5/50 FW 601-650 | 4623.7 | 500 | 50 | PMC SB 5/50 GW N | 4685.7 | 500 | 50 | PMC BSTR 6/30 GW 1 | 9177.7 | 300 | 30 |
| PMC SB 5/50 FW 651-700 | 4624.7 | 500 | 50 | PMC SB 5/50 GS 1 | 4686.7 | 500 | 50 | PMC BSTR 6/30 GW 2 | 9178.7 | 300 | 30 |
| PMC SB 5/50 FW 701-750 | 4625.7 | 500 | 50 | PMC SB 5/50 GS 2 | 4687.7 | 500 | 50 | PMC BSTR 6/30 GW 3 | 9179.7 | 300 | 30 |
| PMC SB 5/50 FW 751-800 | 4626.7 | 500 | 50 | PMC SB 5/50 GS 3 | 4688.7 | 500 | 50 | PMC BSTR 6/30 GW 4 | 9180.7 | 300 | 30 |
| PMC SB 5/50 FW 801-850 | 4627.7 | 500 | 50 | PMC SB 5/50 GS 4 | 4689.7 | 500 | 50 | PMC BSTR 6/30 GW 5 | 9181.7 | 300 | 30 |
| PMC SB 5/50 FW 851-900 | 4628.7 | 500 | 50 | PMC SB 5/50 GS 5 | 4690.7 | 500 | 50 | PMC BSTR 6/30 GW 6 | 9182.7 | 300 | 30 |
| PMC SB 5/50 FW 901-950 | 4629.7 | 500 | 50 | PMC SB 5/50 GS 6 | 4691.7 | 500 | 50 | PMC BSTR 6/30 GW 7 | 9183.7 | 300 | 30 |
| PMC SB 5/50 FW L1, L2, L3, N, PE | 4630.7 | 500 | 50 | PMC SB 5/50 GS 7 | 4692.7 | 500 | 50 | PMC BSTR 6/30 GW 8 | 9184.7 | 300 | 30 |
| PMC SB 5/50 FW U1, V1, W1, N, PE | 4631.7 | 500 | 50 | PMC SB 5/50 GS 8 | 4693.7 | 500 | 50 | PMC BSTR 6/30 GW 9 | 9185.7 | 300 | 30 |
| PMC SB 5/50 FW U1, V1, W1 | 4632.7 | 500 | 50 | PMC SB 5/50 GS 9 | 4694.7 | 500 | 50 | PMC BSTR 6/30 GW 0 | 9186.7 | 300 | 30 |
| PMC SB 5/50 FW U2, V2, W2, N, PE | 4633.7 | 500 | 50 | PMC SB 5/50 GS 0 | 4695.7 | 500 | 50 | PMC BSTR 6/30 GW X | 9187.7 | 300 | 30 |
| PMC SB 5/50 FW U2, V2, W2 | 4634.7 | 500 | 50 | PMC SB 5/50 GS X | 4696.7 | 500 | 50 | PMC BSTR 6/30 GW PE | 9188.7 | 300 | 30 |
| PMC SB 5/50 FW X1-X10 | 4635.7 | 500 | 50 | PMC SB 5/50 GS PE | 4697.7 | 500 | 50 | PMC BSTR 6/30 GW L1 | 9189.7 | 300 | 30 |
| PMC SB 5/50 FS 1-10 | 4636.7 | 500 | 50 | PMC SB 5/50 GS L1 | 4698.7 | 500 | 50 | PMC BSTR 6/30 GW L2 | 9190.7 | 300 | 30 |
| PMC SB 5/50 FS 11-20 | 4637.7 | 500 | 50 | PMC SB 5/50 GS L2 | 4699.7 | 500 | 50 | PMC BSTR 6/30 GW L3 | 9191.7 | 300 | 30 |
| PMC SB 5/50 FS 21-30 | 4638.7 | 500 | 50 | PMC SB 5/50 GS L3 | 4700.7 | 500 | 50 | PMC BSTR 6/30 GW N | 9192.7 | 300 | 30 |
| PMC SB 5/50 FS 31-40 | 4639.7 | 500 | 50 | PMC SB 5/50 GS N | 4701.7 | 500 | 50 | PMC BSTR 6/30 GW + | 9193.7 | 300 | 30 |
| PMC SB 5/50 FS 41-50 | 4640.7 | 500 | 50 | PMC SB 5/50 GS - | 4812.7 | 500 | 50 | PMC BSTR 6/30 GW - | 9194.7 | 300 | 30 |
| PMC SB 5/50 FS 51-60 | 4641.7 | 500 | 50 | PMC SB 5/50 GW - | 4813.7 | 500 | 50 | | | | |
| PMC SB 5/50 FS 61-70 | 4642.7 | 500 | 50 | PMC SB 5/50 GW + | 4814.7 | 500 | 50 | | | | |
| PMC SB 5/50 FS 71-80 | 4643.7 | 500 | 50 | PMC SB 5/50 FS 2,4,6-20 | 4815.7 | 500 | 50 | | | | |
| PMC SB 5/50 FS 81-90 | 4644.7 | 500 | 50 | PMC SB 5/50 FS 1,3,5-19 | 4816.7 | 500 | 50 | | | | |
| PMC SB 5/50 FS 91-100 | 4645.7 | 500 | 50 | PMC SB 5/50 FW 2,4,6-20 | 4817.7 | 500 | 50 | | | | |
| PMC SB 5/50 FS 1-50 | 4646.7 | 500 | 50 | PMC SB 5/50 FW 1,3,5-19 | 4818.7 | 500 | 50 | | | | |
| PMC SB 5/50 FS 51-100 | 4647.7 | 500 | 50 | PMC SB 5/50 custom print | 4819.7 | 500 | 50 | | | | |
| PMC SB 5/50 FS 101-150 | 4648.7 | 500 | 50 | PMC BSTR 6/30 neutral | 9106.7 | 300 | 30 | | | | |
| PMC SB 5/50 FS 151-200 | 4649.7 | 500 | 50 | PMC BSTR 6/30 custom print | 9107.7 | 300 | 30 | | | | |
| PMC SB 5/50 FS 201-250 | 4650.7 | 500 | 50 | PMC BSTR 6/30 FW 1-10 | 9108.7 | 300 | 30 | | | | |
| PMC SB 5/50 FS 251-300 | 4651.7 | 500 | 50 | PMC BSTR 6/30 FW 11-20 | 9109.7 | 300 | 30 | | | | |
| PMC SB 5/50 FS 301-350 | 4652.7 | 500 | 50 | PMC BSTR 6/30 FW 21-30 | 9110.7 | 300 | 30 | | | | |
| PMC SB 5/50 FS 351-400 | 4653.7 | 500 | 50 | PMC BSTR 6/30 FW 31-40 | 9111.7 | 300 | 30 | | | | |
| PMC SB 5/50 FS 401-450 | 4654.7 | 500 | 50 | PMC BSTR 6/30 FW 41-50 | 9112.7 | 300 | 30 | | | | |
| PMC SB 5/50 FS 451-500 | 4655.7 | 500 | 50 | PMC BSTR 6/30 FW 51-60 | 9113.7 | 300 | 30 | | | | |
| PMC SB 5/50 FS 501-550 | 4656.7 | 500 | 50 | PMC BSTR 6/30 FW 61-70 | 9114.7 | 300 | 30 | | | | |
| PMC SB 5/50 FS 551-600 | 4657.7 | 500 | 50 | PMC BSTR 6/30 FW 71-80 | 9115.7 | 300 | 30 | | | | |
| PMC SB 5/50 FS 601-650 | 4658.7 | 500 | 50 | PMC BSTR 6/30 FW 81-90 | 9116.7 | 300 | 30 | | | | |
| PMC SB 5/50 FS 651-700 | 4659.7 | 500 | 50 | PMC BSTR 6/30 FW 91-100 | 9117.7 | 300 | 30 | | | | |
| PMC SB 5/50 FS 701-750 | 4660.7 | 500 | 50 | PMC BSTR 6/30 FW 1-30 | 9118.7 | 300 | 30 | | | | |
| PMC SB 5/50 FS 751-800 | 4661.7 | 500 | 50 | PMC BSTR 6/30 FW 31-60 | 9119.7 | 300 | 30 | | | | |

Additional terminal markers can be found in our **Conta-Label** marker and labeling catalog.

Shield-connection clip SAB

| | SAB 8 | SAB 13.5 | SAB 20 | SAB 8/D M5 |
|--|---|--|---|---|
| <ul style="list-style-type: none"> • Quick snap-on or mounting of the shield-connection clip • Different cable cross-sections can be accommodated by the elastic nature of the spring • Simple handling |  |  |  |  |
|  | | | | |
| Cat. no./Qty. p.pck. | SAB 8 1527.0/10 | SAB 13.5 1528.0/10 | SAB 20 1529.0/10 | SAB 8/D M5 1526.0/10 |
| | 3-8 mm | 4-13.5 mm | 10-20 mm | 3-8 mm |
| Cat. no./Qty. p.pck. SH/SAB busbar support | SH 1 2318.2/20 | SH 1 2318.2/20 | SH 1 2318.2/20 | SH 1 2318.2/20 |
| Cat. no./Qty. p.pack | SH/SAB 1530.2/10 | SH/SAB 1530.2/10 | SH/SAB 1530.2/10 | SH/SAB 1530.2/10 |

General

In the field of industrial engineering, a high degree of interference immunity is required of electrical equipment. In measurement, regulation and control engineering, this is a significant factor in the accessibility of industrial systems. When constructing low-interference systems, cable shielding and the associated shielded ground are both of great significance.







The point where the cable shielding connects to the enclosure ground is a critical point. The connection should be low-ohm, and should also feature minimal inductive resistance.

You should be sure that this connection can be made in a practical, simple and quick manner. The **SAB** clip from **CONTA-CLIP** accomplishes all this with its distinguishing features.



For busbar mounting

Shield-connection clip SAB

| SAB 8/D | SAB 13.5/D | SAB 20/D | SAB 8/F | SAB 13.5/F | SAB 20/F |
|---|---|---|--|---|---|
|  |  |  |  |  |  |
| SAB 8/D 1549.0/10 | SAB 13.5/D 1550.0/10 | SAB 20/D 1551.0/10 | SAB 8/F 1571.0/10 | SAB 13.5/F 1572.0/10 | SAB 20/F 1573.0/10 |
| 3-8 mm | 4-13.5 mm | 10-20 mm | 3-8 mm | 4-13.5 mm | 10-20 mm |
| SH 1 2318.2/20 SH/SAB 1530.2/10 | SH 1 2318.2/20 SH/SAB 1530.2/10 | SH 1 2318.2/20 SH/SAB 1530.2/10 | SH 1 2318.2/20 SH/SAB 1530.2/10 | SH 1 2318.2/20 SH/SAB 1530.2/10 | SH 1 2318.2/20 SH/SAB 1530.2/10 |

SAB remarks

Depending on the length of the terminal blocks, two or more busbar supports are used. These mechanically connect the front busbar with the mounting rail (support).

After the connection of the cables, the shield-connection clip is mounted by simply swiveling in the **SAB** clip onto the busbar. The force on the cable comes from a spring-pressure piece. This regulated pressure ensures a constant optimal contact with the busbar. In cases where the cable shielding is not connected directly on the terminal block, but is somewhere else in the switchgear cabinet, then we recommend using the **SH 1** overlay blocks.

SAB.../D remarks

SAB.../D offers the possibility of direct installation. The **SAB.../D** can be installed with an M4 screw (included in delivery) directly to the mounting plate. The force on the cable comes from a spring-pressure piece. This regulated pressure ensures a constant optimal contact with the mounting plate.

The **SAB 8/D M5** shield-connection clip comes with a special feature; it is equipped with a self-cutting M5 SW3 metal screw. As a result, less time is required to mount the clip on the mounting plate, since you only need to drill one 4.2 mm hole through the plate. The hole threads will then be cut into the plate by the screw.

The **SAB.../F** offers the possibility of assembly on a mounting rail. The **SAB.../F** can be mounted directly to the rail with a fastening screw. The force on the cable comes from a spring-pressure piece. This regulated pressure ensures a constant optimal contact with the mounting rail.



Direct mounting



Mounting on mounting rail

Fuse elements SI

Micro-fuses/G-fuse cartridges 5 x 20 metric 250 V / slow-acting



Construction:

- Transparent glass tube
- Nickel-plated copper contact caps
- IEC 60127-2/2
- EN 60127-2/2
- DIN VDE 0820-2/2

Melting time limits

| Rated current | 1.5 x In 2.1 x In | | 2.75 x In | | 4 x In | | 10 x In | |
|---------------|-------------------|--------|-----------|------|--------|------|---------|-------|
| | min. | max. | min. | max. | min. | max. | min. | max. |
| 32 - 100 mA | 1 h | 2 min. | 200 ms | 10 s | 40 ms | 3 s | 10 ms | 300 s |
| 125mA - 10 A | 1 h | 2 min. | 600 ms | 10 s | 150 ms | 3 s | 20 ms | 300 s |

| Type | Cat. no. | Rated current mA/A | Rated switch-off cap. A AC | Voltage drop mV | Power loss W | Melting integral A²s | Qty. p.pck. |
|------------|----------|--------------------|----------------------------|-----------------|--------------|----------------------|-------------|
| SI 0,032 A | 2912.0 | 32 mA | 35 'L' | 3000 | 0.2 | 0.010 | 10 |
| SI 0,040 A | 2913.0 | 40 mA | 35 'L' | 2000 | 0.2 | 0.020 | 10 |
| SI 0,050 A | 2914.0 | 50 mA | 35 'L' | 1500 | 0.2 | 0.035 | 10 |
| SI 0,063 A | 2915.0 | 63 mA | 35 'L' | 1000 | 0.2 | 0.05 | 10 |
| SI 0,080 A | 2916.0 | 80 mA | 35 'L' | 800 | 0.2 | 0.12 | 10 |
| SI 0,100 A | 2917.0 | 100 mA | 35 'L' | 700 | 0.3 | 0.16 | 10 |
| SI 0,125 A | 2918.0 | 125 mA | 35 'L' | 600 | 0.3 | 0.24 | 10 |
| SI 0,160 A | 2919.0 | 160 mA | 35 'L' | 600 | 0.3 | 0.4 | 10 |
| SI 0,200 A | 2920.0 | 200 mA | 35 'L' | 500 | 0.3 | 0.7 | 10 |
| SI 0,250 A | 2921.0 | 250 mA | 35 'L' | 400 | 0.2 | 1.4 | 10 |
| SI 0,315 A | 2922.0 | 315 mA | 35 'L' | 140 | 0.2 | 0.35 | 10 |
| SI 0,400 A | 2923.0 | 400 mA | 35 'L' | 130 | 0.2 | 0.49 | 10 |
| SI 0,500 A | 2924.0 | 500 mA | 35 'L' | 120 | 0.2 | 0.9 | 10 |
| SI 0,630 A | 2925.0 | 630 mA | 35 'L' | 110 | 0.2 | 1.4 | 10 |
| SI 0,800 A | 2926.0 | 800 mA | 35 'L' | 100 | 0.3 | 3.2 | 10 |
| SI 1,000 A | 2927.0 | 1 A | 35 'L' | 90 | 0.3 | 6.5 | 10 |
| SI 1,250 A | 2928.0 | 1.25 A | 35 'L' | 80 | 0.3 | 5.0 | 10 |
| SI 1,600 A | 2929.0 | 1.6 A | 35 'L' | 80 | 0.4 | 10 | 10 |
| SI 2,000 A | 2930.0 | 2 A | 35 'L' | 80 | 0.5 | 20 | 10 |
| SI 2,500 A | 2931.0 | 2.5 A | 35 'L' | 80 | 0.6 | 26 | 10 |
| SI 3,150 A | 2932.0 | 3.15 A | 35 'L' | 80 | 0.6 | 44 | 10 |
| SI 4,000 A | 2933.0 | 4 A | 40 'L' | 80 | 0.8 | 72 | 10 |
| SI 5,000 A | 2934.0 | 5 A | 50 'L' | 80 | 1.2 | 130 | 10 |
| SI 6,300 A | 2935.0 | 6.3 A | 63 'L' | 70 | 1.3 | 230 | 10 |
| SI 8,000 A | 2936.0 | 8 A | 80 'L' | 70 | 1.8 | 240 | 10 |
| SI 10,00 A | 2937.0 | 10 A | 100 'L' | 70 | 2.4 | 380 | 10 |

Micro-fuses/G-fuse cartridges 5 x 20 metric 250 V / fast-acting



Construction:

- Transparent glass tube
- Nickel-plated copper contact caps
- IEC 60127-2/2
- EN 60127-2/2
- DIN VDE 0820-2/2

Melting time limits

| Rated current | 1.5 x In 2.1 x In | | 2.75 x In | | 4 x In | | 10 x In | |
|---------------|-------------------|---------|-----------|--------|--------|--------|---------|-------|
| | min. | max. | min. | max. | min. | max. | min. | max. |
| 32 - 100 mA | 1 h | 30 min. | 10 ms | 500 ms | 3 ms | 100 ms | - | 300 s |
| 125 mA - 10 A | 1 h | 30 min. | 50 ms | 2 s | 10 ms | 300 ms | - | 300 s |
| 8-10 A | 1h | 30 min. | 50 ms | 2 s | 10 ms | 400 ms | - | 300 s |

| Type | Cat. no. | Rated current mA/A | Rated switch-off cap. A AC | Voltage drop mV | Power loss W | Melting integral A²s | Qty. p.pck. |
|------------|----------|--------------------|----------------------------|-----------------|--------------|----------------------|-------------|
| SI 0,032 A | 2891.0 | 32 mA | 35 'L' | 10000 | 0.8 | 0.0001 | 10 |
| SI 0,040 A | 2892.0 | 40 mA | 35 'L' | 8000 | 0.8 | 0.0002 | 10 |
| SI 0,050 A | 2893.0 | 50 mA | 35 'L' | 3500 | 0.4 | 0.0004 | 10 |
| SI 0,063 A | 2894.0 | 63 mA | 35 'L' | 3500 | 0.5 | 0.0007 | 10 |
| SI 0,080 A | 2895.0 | 80 mA | 35 'L' | 2500 | 0.5 | 0.0017 | 10 |
| SI 0,100 A | 2896.0 | 100 mA | 35 'L' | 2200 | 0.6 | 0.0022 | 10 |
| SI 0,125 A | 2897.0 | 125 mA | 35 'L' | 350 | 0.2 | 0.01 | 10 |
| SI 0,160 A | 2898.0 | 160 mA | 35 'L' | 310 | 0.2 | 0.02 | 10 |
| SI 0,200 A | 2899.0 | 200 mA | 35 'L' | 290 | 0.2 | 0.037 | 10 |
| SI 0,250 A | 2900.0 | 250 mA | 35 'L' | 280 | 0.3 | 0.073 | 10 |
| SI 0,315 A | 2901.0 | 315 mA | 35 'L' | 230 | 0.3 | 0.16 | 10 |
| SI 0,400 A | 2902.0 | 400 mA | 35 'L' | 200 | 0.3 | 0.31 | 10 |
| SI 0,500 A | 2903.0 | 500 mA | 35 'L' | 160 | 0.3 | 0.16 | 10 |
| SI 0,630 A | 2904.0 | 630 mA | 35 'L' | 140 | 0.3 | 0.39 | 10 |
| SI 0,800 A | 2905.0 | 800 mA | 35 'L' | 130 | 0.4 | 0.8 | 10 |
| SI 1,000 A | 2406.0 | 1 A | 35 'L' | 130 | 0.5 | 1.5 | 10 |
| SI 1,250 A | 2906.0 | 1.25 A | 35 'L' | 120 | 0.6 | 2.0 | 10 |
| SI 1,600 A | 2907.0 | 1.6 A | 35 'L' | 120 | 0.7 | 4.1 | 10 |
| SI 2,000 A | 2407.0 | 2 A | 35 'L' | 120 | 0. | 6.2 | 10 |
| SI 2,500 A | 2908.0 | 2.5 A | 35 'L' | 120 | 1.0 | 11 | 10 |
| SI 3,150 A | 2909.0 | 3.15 A | 35 'L' | 120 | 1.2 | 20 | 10 |
| SI 4,000 A | 2408.0 | 4 A | 40 'L' | 100 | 1.4 | 25 | 10 |
| SI 5,000 A | 2938.0 | 5 A | 50 'L' | 100 | 1.7 | 42 | 10 |
| SI 6,300 A | 2409.0 | 6.3 A | 63 'L' | 100 | 2.0 | 79 | 10 |
| SI 8,000 A | 2910.0 | 8 A | 80 'L' | 100 | 2.2 | 125 | 10 |
| SI 10,00 A | 2911.0 | 10 A | 100 'L' | 100 | 2.4 | 220 | 10 |

Fuse elements SI

Micro-fuses/G-fuse cartridges 6.3 x 32 imperial 250 V / 400 V / 500 V / slow-acting



Construction:

- Transparent glass tube
- Nickel-plated copper contact caps

Melting time limits

| Rated current | 1.5 x I _n | | 2.75 x I _n | | 4 x I _n | | 10 x I _n | |
|---------------|----------------------|---------|-----------------------|------|--------------------|------|---------------------|-------|
| | min. | max. | min. | max. | min. | max. | min. | max. |
| 32 - 100 mA | 1 h | 30 min. | 400 ms | 80 s | 95 ms | 5 s | 10 ms | 300 s |
| 125mA - 10 A | 1 h | 30 min. | 400 ms | 80 s | 150 ms | 5 s | 20 ms | 300 s |

| Type | Cat. no. | Rated current mA/A | Rated switch-off cap. A AC | Voltage drop mV | Power loss W | Melting integral A ² s | Qty. p.pck. |
|------------------|---------------|--------------------|----------------------------|-----------------|--------------|-----------------------------------|-------------|
| SI 0,100 A/32 F | 4950.0 | 100 mA | | 3600 | 1.3 | 0.050 | 10 |
| SI 0,125 A/32 F | 4951.0 | 125 mA | | 3400 | 1.4 | 0.080 | 10 |
| SI 0,160 A/32 T | 4952.0 | 160 mA | | 3000 | 1.5 | 0.12 | 10 |
| SI 0,200 A/32 T | 4953.0 | 200 mA | 1.5 kA | 2500 | 1.60 | 0.20 | 10 |
| SI 0,250 A/32 T | 4954.0 | 250 mA | | 2000 | 1.7 | 0.35 | 10 |
| SI 0,315 A/32 T | 4955.0 | 315 mA | @ 500 V AC | 1800 | 1.8 | 0.50 | 10 |
| SI 0,400 A/32 T | 4956.0 | 400 mA | | 1600 | 2.0 | 0.80 | 10 |
| SI 0,500 A/32 T | 4957.0 | 500 mA | cos φ = 1 | 450 | 0.6 | 0.35 | 10 |
| SI 0,630 A/32 T | 4958.0 | 630 mA | | 400 | 0.7 | 0.49 | 10 |
| SI 0,800 A/32 T | 4959.0 | 800 mA | | 350 | 0.80 | 0.9 | 10 |
| SI 1,000 A/32 T | 4960.0 | 1 A | | 350 | 0.9 | 1.4 | 10 |
| SI 1,250 A/32 T | 4961.0 | 1.25 A | 10 kA @ 400 V AC | 300 | 1.0 | 3.2 | 10 |
| SI 1,600 A/32 T | 4962.0 | 1.6 A | | 200 | 1.1 | 5.2 | 10 |
| SI 2,000 A/32 T | 4963.0 | 2 A | cos φ = 0.3 | 180 | 1.2 | 10 | 10 |
| SI 2,500 A/32 T | 4964.0 | 2.5 A | | 160 | 1.3 | 19 | 10 |
| SI 3,150 A/32 T | 4965.0 | 3.15 A | | 150 | 1.4 | 37 | 10 |
| SI 4,000 A/32 T | 4966.0 | 4 A | | 140 | 1.5 | 68.0 | 10 |
| SI 5,000 A/32 T | 4967.0 | 5 A | | 135 | 2.2 | 80 | 10 |
| SI 6,300 A/32 T | 4968.0 | 6.3 A | | 110 | 2.2 | 215 | 10 |
| SI 8,000 A/32 T | 4969.0 | 8 A | | 110 | 2.6 | 370 | 10 |
| SI 10,000 A/32 T | 4970.0 | 10 A | | 100 | 3.0 | 620 | 10 |

Micro-fuses/G-fuse cartridges 6.3 x 32 imperial 440 V / 500 V / fast-acting



Construction:

- Transparent glass tube
- Nickel-plated copper contact caps

Melting time limits

| Rated current | 1.5 x I _n | | 2.75 x I _n | | 4 x I _n | | 10 x I _n | |
|---------------|----------------------|---------|-----------------------|-------|--------------------|--------|---------------------|------|
| | min. | max. | min. | max. | min. | max. | min. | max. |
| 160 - 800 mA | 1 h | 30 min. | 20 ms | 1.5 s | 8 ms | 400 ms | - | 20 s |
| 1 - 25 A | 1 h | 30 min. | 100 ms | 5 s | 20 ms | 1 s | - | 50 s |

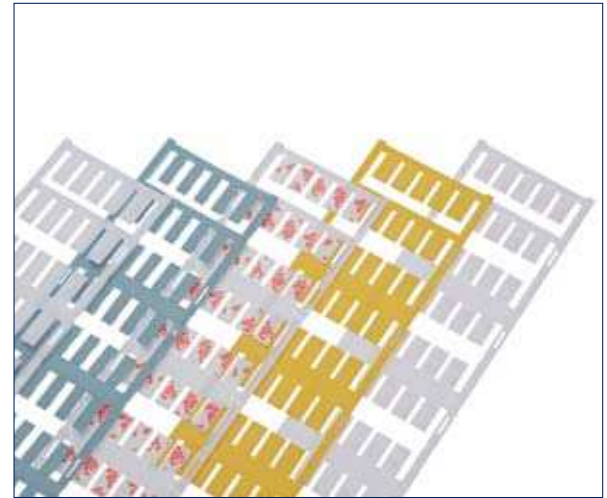
When using this G-fuse cartridges with 6.3 A or higher, it is necessary to ensure that there is sufficient heat dissipation!

| Type | Cat. no. | Rated current mA/A | Rated switch-off cap. A AC | Voltage drop mV | Power loss W | Melting integral A ² s | Qty. p.pck. |
|------------------|---------------|--------------------|----------------------------|-----------------|--------------|-----------------------------------|-------------|
| SI 0,160 A/32 F | 4971.0 | 160 mA | | 7000 | 2.5 | 0.0015 | 10 |
| SI 0,200 A/32 F | 4972.0 | 200 mA | | 6500 | 2.9 | 0.0035 | 10 |
| SI 0,250 A/32 F | 4973.0 | 250 mA | | 6000 | 3.4 | 0.0085 | 10 |
| SI 0,315 A/32 F | 4974.0 | 315 mA | 1.5 kA | 1000 | 0.90 | 0.036 | 10 |
| SI 0,400 A/32 F | 4975.0 | 400 mA | @ 500 V AC | 900 | 1 | 0.07 | 10 |
| SI 0,500 A/32 F | 4976.0 | 500 mA | cos φ = 1 | 800 | 1.1 | 0.19 | 10 |
| SI 0,630 A/32 F | 4977.0 | 630 mA | | 700 | 1.3 | 0.35 | 10 |
| SI 0,800 A/32 F | 4978.0 | 800 mA | | 600 | 1.4 | 0.49 | 10 |
| SI 1,000 A/32 F | 4979.0 | 1 A | | 400 | 1.2 | 0.4 | 10 |
| SI 1,250 A/32 F | 4980.0 | 1.25 A | 50 kA | 300 | 1.30 | 0.8 | 10 |
| SI 1,600 A/32 F | 4981.0 | 1.6 A | @ 500 V AC | 300 | 1.4 | 1.5 | 10 |
| SI 2,000 A/32 F | 4982.0 | 2 A | cos φ = 1 | 280 | 1.6 | 2.5 | 10 |
| SI 2,500 A/32 F | 4983.0 | 2.5 A | | 260 | 1.8 | 5 | 10 |
| SI 3,150 A/32 F | 4984.0 | 3.15 A | | 240 | 2.3 | 9 | 10 |
| SI 4,000 A/32 F | 4985.0 | 4 A | 20 kA | 220 | 2.6 | 18 | 10 |
| SI 5,000 A/32 F | 4986.0 | 5 A | @ 500 V AC | 190 | 2.9 | 40 | 10 |
| SI 6,300 A/32 F | 4987.0 | 6.3 A | | 170 | 3.2 | 80 | 10 |
| SI 8,000 A/32 F | 4988.0 | 8 A | 1.5 kA | 160 | 3.7 | 150 | 10 |
| SI 10,000 A/32 F | 4989.0 | 10 A | @ 500 V AC | 150 | 4.0 | 240 | 10 |

Device and installation markers

Maxicard GS

The MC GS device markers from **CONTA-CLIP** are true to the original design of well-known manufacturers. These markers are for protectors, automatic switchgear equipment, relays, and circuit-breakers, etc., and ensure an excellent all-round appearance. In addition to their application on devices, the self-adhesive versions of the **MC GS 9/17 K** markers can also be quickly and simply used for labeling components, units, and electronic modules.



| Type | Number of characters Lines when using font size 18 and plotter pen 0.25 | |
|---------------|---|------------------|
| | horizontal | vertical |
| MC GS 7/20 R | 4-digit 5-row | 14-digit 2-row |
| MC GS 9/17 K | 4-digit 5-row | 9-digit 3-row |
| MC GS 8/17 Rt | 4-digit 5-row | 9-digit 3-row |
| MC GS 8/17 R | 4-digit 5-row | 9-digit 3-row |
| MC GS 8/19 R | 4-digit 5-row | 12-digit 3-row |
| MC GS 9/20 R | 4-digit 5-row | 14-digit 3-row |

Maxicard GS – technical data and order information

| | |
|--------------------------|--|
| Material | Polyamide 6.6, halogen-free |
| Flammability class | In accordance with UL 94-V2 |
| Temperature range | -40 °C to +105 °C |
| Colors | MC GS , please refer to the order information on this page |
| Package | Carton |
| Minimum order quantity | Neutral marker and customized print 1 per pack. |
| Special customized print | Please send your requirements (following formats: *.ANS, *.WEK, *.WEC, *.WEA, *.WES, *.MAK, *.ELS, *.MPD, *.VER, *.TXT, *.XLS) to: customized.markers@conta-clip.de. Please note that orders printed on paper will incur an extra charge to cover the costs of manual input. |



| Cat. no. | Type | Application | Size L x W (mm) | Number of markers card | Number of markers row | Qty. p.pck. |
|---------------|-----------------------------------|--|-----------------|--------------------------|-------------------------|-------------|
| 3329.7 | MC GS 7/20 R white | Application: Siemens SIRIUS 3 R | 20 x 7 | 40 | 5 | 200 |
| 3329.8 | MC GS 7/20 R yellow | Application: Siemens SIRIUS 3 R | 20 x 7 | 40 | 5 | 200 |
| 3329.0 | MC GS 7/20 R turquoise | Application: Siemens SIRIUS 3 R | 20 x 7 | 40 | 5 | 200 |
| 3335.7 | MC GS 7/20 R white custom print | Application: Siemens SIRIUS 3 R | 20 x 7 | 40 | 5 | 200 |
| 3323.7 | MC GS 9/17 K white | Application: universal self-adhesive | 17 x 9 | 40 | 5 | 200 |
| 3333.7 | MC GS 9/17 K white custom print | Application: universal self-adhesive | 17 x 9 | 40 | 5 | 200 |
| 3321.7 | MC GS 8/17 R t white | Application: Telemecanique | 17 x 8 | 40 | 5 | 200 |
| 3331.7 | MC GS 8/17 R t white custom print | Application: Telemecanique | 17 x 8 | 40 | 5 | 200 |
| 3320.7 | MC GS 8/17 R white | Application: GE (AEG) / SYS PRO M; ABB-Stotz | 17 x 8 | 40 | 5 | 200 |
| 3330.7 | MC GS 8/17 R white custom print | Application: GE (AEG) / SYS PRO M; ABB-Stotz | 17 x 8 | 40 | 5 | 200 |
| 3322.7 | MC GS 8/19 R white | Application: AEG | 19 x 8 | 40 | 5 | 200 |
| 3332.7 | MC GS 8/19 R white custom print | Application: AEG | 19 x 8 | 40 | 5 | 200 |
| 3324.7 | MC GS 9/20 R white | Application: Siemens / Moeller | 20 x 9 | 40 | 5 | 200 |
| 3334.7 | MC GS 9/20 R white custom print | Application: Siemens / Moeller | 20 x 9 | 40 | 5 | 200 |

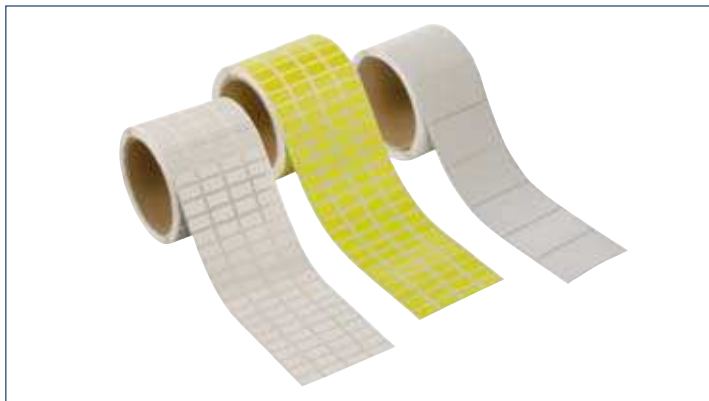
Other colors on request.

Device and installation markers

GKE adhesive device labels

GKE adhesive device labels from **CONTA-CLIP** bring clarity to the switchgear cabinet. The premium quality of the labels and the brilliant thermo-transfer printing results guarantee high-levels of resistance against solvents and ensure optimum marker legibility.

- High-quality self-adhesive polyester labels
- Surface particularly suitable for thermo-transfer printing
- Suitable for all devices and marking tasks
- Available in yellow, silver and white
- 16 different sizes, 39 versions – arranged in rows of 1, 2 or 3 labels
- The BS-1 marker pen (cat. no.: 2034.0) for uncomplicated and quick marking
- Quick and convenient printing with the TTP thermo-transfer printer (refer to the **Conta-Label** catalog)



| GKE technical data | |
|------------------------|---|
| Material | polyester |
| Colors | white, yellow, silver |
| Delivery in | Roll (core diameter 75 mm) |
| Min. attaching temp. | + 15°C |
| Temperature resistance | - 40°C to + 150°C |
| Storage | Min. 2 year storage time (normal conditions) |
| Properties | Low shrinkage. Resistant to water, alcohol, gasoline and oils |

| Cat. no. | Type | Label roll | Size of markers L x W (mm) | Color labelling area |
|---------------|------------------|--------------|----------------------------|------------------------|
| 3914.8 | GKE 10/7 GE | 10000 | 10 x 7 | yellow |
| 3900.8 | GKE 15/6 GE | 10000 | 15 x 6 | yellow |
| 3900.0 | GKE 15/6 SI | 10000 | 15 x 6 | silver |
| 3900.7 | GKE 15/6 WS | 10000 | 15 x 6 | white |
| 3901.8 | GKE 18/6 GE | 10000 | 18 x 6 | yellow |
| 3901.0 | GKE 18/6 SI | 10000 | 18 x 6 | silver |
| 3901.7 | GKE 18/6 WS | 10000 | 18 x 6 | white |
| 3902.8 | GKE 18/9 GE | 10000 | 18 x 9 | yellow |
| 3902.0 | GKE 18/9 SI | 10000 | 18 x 9 | silver |
| 3902.7 | GKE 18/9 WS | 10000 | 18 x 9 | white |
| 3903.8 | GKE 20/8 GE | 10000 | 20 x 8 | yellow |
| 3903.0 | GKE 20/8 SI | 10000 | 20 x 8 | silver |
| 3903.7 | GKE 20/8 WS | 10000 | 20 x 8 | white |
| 3915.0 | GKE 21,5/21,5 SI | 6000 | 21.5 x 21.5 | silver |
| 3904.8 | GKE 25/12 GE | 10000 | 25 x 12 | yellow |
| 3904.0 | GKE 25/12 SI | 10000 | 25 x 12 | silver |
| 3904.7 | GKE 25/12 WS | 10000 | 25 x 12 | white |
| 3905.8 | GKE 26/10 GE | 10000 | 26 x 10 | yellow |
| 3905.0 | GKE 26/10 SI | 10000 | 26 x 10 | silver |
| 3905.7 | GKE 26/10 WS | 10000 | 26 x 10 | white |
| 3906.0 | GKE 26.5/17.5 SI | 10000 | 26.5 x 17.5 | silver |
| 3916.0 | GKE 27/27 SI | 9000 | 27 x 27 | silver |
| 3917.7 | GKE 30/6 WS | 10000 | 30 x 6 | white |
| 3907.8 | GKE 30/20 GE | 6000 | 30 x 20 | yellow |
| 3907.0 | GKE 30/20 SI | 6000 | 30 x 20 | silver |
| 3907.7 | GKE 30/20 WS | 6000 | 30 x 20 | white |
| 3908.8 | GKE 32/9 GE | 10000 | 32 x 9 | yellow |
| 3908.0 | GKE 32/9 SI | 10000 | 32 x 9 | silver |
| 3908.7 | GKE 32/9 WS | 10000 | 32 x 9 | white |
| 3909.8 | GKE 38/19 GE | 2000 | 38 x 19 | yellow |
| 3909.0 | GKE 38/19 SI | 2000 | 38 x 19 | silver |
| 3909.7 | GKE 38/19 WS | 2000 | 38 x 19 | white |
| 3910.8 | GKE 45/23 GE | 2000 | 45 x 23 | yellow |
| 3910.0 | GKE 45/23 SI | 2000 | 45 x 23 | silver |
| 3910.7 | GKE 45/23 WS | 2000 | 45 x 23 | white |
| 3911.8 | GKE 65/35 GE | 1000 | 65 x 35 | yellow |
| 3911.0 | GKE 65/35 SI | 1000 | 65 x 35 | silver |
| 3911.7 | GKE 65/35 WS | 1000 | 65 x 35 | white |
| 3912.0 | GKE 101/48 SI | 500 | 101 x 48 | silver |
| 3913.0 | GKE 101/74 SI | 500 | 101 x 74 | silver |

GE = yellow, SI = silver, WS = white

Device and installation markers

GKE adhesive device labels on DIN A4 sheets

High-quality **CONTA-CLIP** adhesive polyester labels are now also available in DIN A4 format, suitable for labeling with either the **EMS-2** plotter (in connection with the **CCI-8** inlay, refer to the **CONTA-LABEL** catalog) or with a laser printer. The labels are resistant to heat and abrasion. They can be used for nearly all labeling purposes.



| Cat. no. | Type | Piece sheet | Labeling area L x W (mm) | Colour Labelling field | Qty. p.pck. |
|----------------|----------------------------|------------------------------------|--------------------------------|---------------------------|-------------|
| 3920.8 | GKE 15/4.6 GE A4 | 1 DIN A4 sheet 627 markers each | 15 x 4.6 | yellow | 10 |
| 3921.8 | GKE 15/6 GE A4 | 1 DIN A4 sheet 484 markers each | 15 x 6 | yellow | 10 |
| 88517.0 | GKE 17/9 GE A4 | 1 DIN A4 sheet 290 markers each | 17 x 6 | yellow | 10 |
| 3922.8 | GKE 20/8 GE A4 | 1 DIN A4 sheet 264 markers each | 20 x 8 | yellow | 10 |
| 3923.8 | GKE 25,4/12,7 GE A4 | 1 DIN A4 sheet 147 markers each | 25.4 x 12.7 | yellow | 10 |
| 3924.8 | GKE 26/10 GE A4 | 1 DIN A4 sheet 156 markers each | 26 x 10 | yellow | 10 |
| 3925.8 | GKE 30/20 GE A4 | 1 DIN A4 sheet 78 markers each | 30 x 20 | yellow | 10 |
| 3926.8 | GKE 56/22 GE A4 | 1 DIN A4 sheet 36 markers each | 56 x 22 | yellow | 10 |
| 3927.8 | GKE 60/36 GE A4 | 1 DIN A4 sheet 21 markers each | 60 x 36 | yellow | 10 |
| 3928.8 | GKE 105/148 GE A4 | 1 DIN A4 sheet 4 markers each | 105 x 148 | yellow | 10 |
| 3929.8 | GKE 210/148 GE A4 | 1 DIN A4 sheet 2 markers each | 210 x 148 | yellow | 10 |

Types and order numbers *alphabetic*

| Type | Cat. no. | Page | Type | Cat. no. | Page | Type | Cat. no. | Page |
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| A | | | CMS-F-UI | 15886.2 | 142 | FBK34C | 15282.2 | 128 |
| 516-020-000-301 | 15763.2 | 132 | CMS-UI60-UI | 15885.2 | 140 | FBK34CZ | 15283.2 | 128 |
| 516-020-000-302 | 15326.2 | 132 | CMS-UI-UI | 15650.2 | 139 | FBK40C | 15284.2 | 128 |
| 516-020-000-401 | 15764.2 | 132 | CMS-UI-R | 15884.2 | 141 | FBK40CZ | 15285.2 | 128 |
| 516-038-000-301 | 15311.2 | 132 | CP 250 E-4 | 15616.2 | 34 | FBK50C | 15286.2 | 128 |
| 516-038-000-302 | 15209.2 | 132 | CP 5 | 15469.2 | 35 | FBK50CZ | 15287.2 | 128 |
| 516-038-000-401 | 15313.2 | 132 | CP 5 E-4 | 15602.2 | 35 | FBK60C | 15288.2 | 128 |
| 516-056-000-301 | 15121.2 | 132 | CP 5H | 15470.2 | 35 | FBK60CZ | 15289.2 | 128 |
| 516-056-000-302 | 15327.2 | 132 | CP DS 250 VG | 15617.2 | 34 | FBK64C | 15290.2 | 128 |
| 516-056-000-401 | 15119.2 | 132 | CP E-2 | 6865.0 | 36 | FBK64CZ | 15291.2 | 128 |
| 516-090-000-302 | 15364.2 | 132 | CP E-3 | 6866.0 | 36 | FLTRS-16 | 6004.2 | 121 |
| 516-090-000-401 | 15403.2 | 132 | CP E-4 | 6867.0 | 36 | G | | |
| 516-230-5-20 | 15765.2 | 132 | CP V 10 | 6869.0 | 38 | G 4 OAC 24 | 5978.0 | 113 |
| 516-230-5-38 | 15312.2 | 132 | CP V 40 S | 6864.0 | 36 | G 4 OAC 5 | 5977.0 | 113 |
| 516-230-5-56 | 15122.2 | 132 | CP V40 | 6862.0 | 36 | G 4 ODC 24 | 5976.0 | 113 |
| 516-230-5-90 | 15404.2 | 132 | CP VH 40 | 6863.0 | 36 | G 4 ODC 5 | 5975.0 | 113 |
| 516-280-201 | 15423.2 | 132 | CP VHG 40-TT | 6868.0 | 37 | GKE 10/7 GE | 3914.8 | 163 |
| 516-280-300 | 15434.2 | 132 | D | | | GKE 101/48 SI | 3912.0 | 163 |
| 516-280-400 | 15446.2 | 132 | DC-DC/10-0,5 | 6810.0 | 28 | GKE 101/74 SI | 3913.0 | 163 |
| 516-280-500 | 15766.2 | 132 | DC-DC/10-3 | 1373.9 | 29 | GKE 105/148 GE | 3928.8 | 164 |
| 516-290-520 | 15328.2 | 132 | DC-DC/12-0,5 | 7792.2 | 28 | GKE 15/4,6 GE | 3920.8 | 164 |
| 516-290-540 | 15366.2 | 132 | DC-DC/12-3 | 7795.2 | 29 | GKE 15/6 GE | 3900.8 | 163 |
| 516-290-590 | 15329.2 | 132 | DC-DC/15-0,5 | 7793.2 | 28 | GKE 15/6 GE | 3921.8 | 164 |
| 516-290-591 | 15118.2 | 132 | DC-DC/15-3 | 7796.2 | 29 | GKE 15/6 WS | 3900.0 | 163 |
| ACDCG/12-1,5 | 15025.2 | 30 | DC-DC/24-0 | 1343.9 | 28 | GKE 15/6 SI | 3900.7 | 163 |
| ACDCG/15-1,5 | 15026.2 | 30 | DC-DC/24-3 | 6937.0 | 29 | GKE 17/9 GE | 88517.0 | 164 |
| ACDCG/24-1,5 | 15027.2 | 30 | DC-DC/5-0,5 | 7791.2 | 28 | GKE 18/6 GE | 3901.8 | 163 |
| ACDCG/5-1,5 | 15024.2 | 30 | DC-DC/5-3 | 7794.2 | 29 | GKE 18/6 SI | 3901.0 | 163 |
| AD1 | 5893.0 | 153 | DM 12 | 5703.2 | 119 | GKE 18/6 WS | 3901.7 | 163 |
| AD2 | 5894.0 | 153 | DM 12/AD* | 5703.9 | 119 | GKE 18/9 GE | 3902.8 | 163 |
| AO/0-10V/SCHAK | 6568.2 | 57 | DM 14 | 6319.2 | 119 | GKE 18/9 SI | 3902.0 | 163 |
| AO-1 | 6550.2 | 56 | DM 14/AD | 6319.9 | 119 | GKE 18/9 WS | 3902.7 | 163 |
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| AOW4-2S | 6411.2 | 57 | DM 14-A/AD | 5704.9 | 119 | GKE 20/8 GE | 3922.8 | 164 |
| AP/AD1 | 5891.0 | 153 | DM 14-K | 5706.2 | 119 | GKE 20/8 SI | 3903.0 | 163 |
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| AP0/TS orange | 3133.3 | 153 | DM 22-A/AD | 5705.9 | 119 | GKE 210/148 GE | 3929.8 | 164 |
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| AP1/TS orange | 5681.3 | 153 | DM 22-K/AD | 5707.9 | 119 | GKE 25/12 GE | 3904.8 | 163 |
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| AQ1/PRC/20 blue | 15545.5 | 72 | DM 4 | 6318.2 | 119 | GKE 26/10 GE | 3924.8 | 164 |
| AQ1/PRC/20 yellow | 15545.8 | 72 | DM 4/AD* | 6318.9 | 119 | GKE 26/10 SI | 3905.0 | 163 |
| AQ1/PRC/20 black | 15545.4 | 72 | DM 8 | 5702.2 | 119 | GKE 26/10 WS | 3905.7 | 163 |
| ASB-1 | 6760.2 | 61 | DM 8/AD* | 5702.9 | 119 | GKE 27/27 SI | 3916.0 | 163 |
| ASB-1/DC | 7974.2 | 61 | E | | | GKE 30/20 GE | 3907.8 | 163 |
| ASB-2 | 6995.0 | 61 | EG 3-SSW | 8391.0 | 149 | GKE 30/20 GE | 3925.8 | 164 |
| ASBW-2 | 15097.2 | 63 | ES 32 | 2004.2 | 156 | GKE 30/20 SI | 3907.0 | 163 |
| AU-1 | 6562.2 | 64 | ES 32/2/K | 2825.2 | 156 | GKE 30/20 WS | 3907.7 | 163 |
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| AU4/2L | 6431.2 | 65 | ES 35 | 2005.2 | 156 | GKE 32/9 SI | 3908.0 | 163 |
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| BS/AD | 2385.0 | 153 | FBK 10 LA | 6501.2 | 129 | GKE 38/19 WS | 3909.7 | 163 |
| BS/RS | 4560.0 | 153 | FBK 14 LA | 6502.2 | 129 | GKE 45/23 GE | 3910.8 | 163 |
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| CAE/I-U/0-20mA | 6755.2 | 145 | FBK 26 LA | 6505.2 | 129 | GM 1 A/C | 6144.2 | 26 |
| CAE/I-U/4-20mA | 6756.2 | 145 | FBK 2-60 | 6121.2 | 129 | GM 1-0 | 5738.2 | 25 |
| CAE/I-U/G/230 | 6776.2 | 146 | FBK 2-64 | 6122.2 | 129 | GM 1-4 A/C | 6999.0 | 26 |
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| MC GS 8/17 R white | 3320.7 | 162 |
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| 1530.2 | SH/SAB | 159 | 3329.7 | MC GS 7/20 R white | 162 | 4622.7 | PMC SB 5/50 FW 551-600 | 157 |
| 1549.0 | SAB 8/D | 159 | 3329.8 | MC GS 7/20 R yellow | 162 | 4623.7 | PMC SB 5/50 FW 601-650 | 157 |
| 1550.0 | SAB 13.5/D | 158 | 3330.7 | MC GS 8/17 R white custom print | 162 | 4624.7 | PMC SB 5/50 FW 651-700 | 157 |
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| 1571.0 | SAB 8/F | 159 | 3332.7 | MC GS 8/19 R white custom print | 162 | 4626.7 | PMC SB 5/50 FW 751-800 | 157 |
| 1572.0 | SAB 13.5/F | 159 | 3333.7 | MC GS 9/17 K white custom print | 162 | 4627.7 | PMC SB 5/50 FW 801-850 | 157 |
| 1573.0 | SAB 20/F | 159 | 3334.7 | MC GS 9/20 R white custom print | 162 | 4628.7 | PMC SB 5/50 FW 851-900 | 157 |
| 2 | | | 3335.7 | MC GS 7/20 R white custom print | 162 | 4629.7 | PMC SB 5/50 FW 901-950 | 157 |
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| 2026.0 | TS 35x7.5 unpunched | 155 | 3900.0 | GKE 15/6 SI | 163 | 4633.7 | PMC SB 5/50 FW U2,V2,W2,N,PE | 157 |
| 2027.0 | TS 35x15 unpunched | 155 | 3900.7 | GKE 15/6 WS | 163 | 4634.7 | PMC SB 5/50 FW U2,V2,W2 | 157 |
| 2034.0 | BS-1 labelling pen | 163 | 3900.8 | GKE 15/6 GE | 163 | 4635.7 | PMC SB 5/50 FW X1-X10 | 157 |
| 2038.0 | TS 35x15/2.3 unpunched | 154 | 3901.0 | GKE 18/6 SI | 163 | 4636.7 | PMC SB 5/50 FS 1-10 | 157 |
| 2039.0 | TS 35x15/2.3 punched | 154 | 3901.7 | GKE 18/6 WS | 163 | 4637.7 | PMC SB 5/50 FS 11-20 | 157 |
| 2093.0 | TS 32 punched | 154 | 3901.8 | GKE 18/6 GE | 163 | 4638.7 | PMC SB 5/50 FS 21-30 | 157 |
| 2094.0 | TS 35x7.5 punched | 155 | 3902.0 | GKE 18/9 SI | 163 | 4639.7 | PMC SB 5/50 FS 31-40 | 157 |
| 2095.0 | TS 35x15 punched | 154 | 3902.7 | GKE 18/9 WS | 163 | 4640.7 | PMC SB 5/50 FS 41-50 | 157 |
| 2318.2 | SH 1 | 158 | 3902.8 | GKE 18/9 GE | 163 | 4641.7 | PMC SB 5/50 FS 51-60 | 157 |
| 2370.0 | TS 32/ALU unpunched | 154 | 3903.0 | GKE 20/8 SI | 163 | 4642.7 | PMC SB 5/50 FS 61-70 | 157 |
| 2371.0 | TS 32/CU unpunched | 154 | 3903.7 | GKE 20/8 WS | 163 | 4643.7 | PMC SB 5/50 FS 71-80 | 157 |
| 2372.0 | TS 35x15/PVC unpunched | 155 | 3903.8 | GKE 20/8 GE | 163 | 4644.7 | PMC SB 5/50 FS 81-90 | 157 |
| 2385.0 | BS/AD | 153 | 3904.0 | GKE 25/12 SI | 163 | 4645.7 | PMC SB 5/50 FS 91-100 | 157 |
| 2406.0 | SI 1A | 160 | 3904.7 | GKE 25/12 WS | 163 | 4646.7 | PMC SB 5/50 FS 1-50 | 157 |
| 2407.0 | SI 2A | 160 | 3904.8 | GKE 25/12 GE | 163 | 4647.7 | PMC SB 5/50 FS 51-100 | 157 |
| 2408.0 | SI 4A | 160 | 3905.0 | GKE 26/10 SI | 163 | 4648.7 | PMC SB 5/50 FS 101-150 | 157 |
| 2409.0 | SI 6.3 A | 160 | 3905.7 | GKE 26/10 WS | 163 | 4649.7 | PMC SB 5/50 FS 151-200 | 157 |
| 2710.0 | TS 35x7.5 ALU unpunched | 155 | 3905.8 | GKE 26/10 GE | 163 | 4650.7 | PMC SB 5/50 FS 201-250 | 157 |
| 2825.2 | ES 32/2/K | 156 | 3905.9 | GKE 26/10 WS | 163 | 4651.7 | PMC SB 5/50 FS 251-300 | 157 |
| 2826.2 | ES 35/2/K | 156 | 3906.0 | GKE 26.5/17.5 SI | 163 | 4652.7 | PMC SB 5/50 FS 301-350 | 157 |
| 2827.0 | ES 32/K/ST | 156 | 3907.0 | GKE 30/20 SI | 163 | 4653.7 | PMC SB 5/50 FS 351-400 | 157 |
| 2828.0 | ES 35/K/ST | 156 | 3907.7 | GKE 30/20 WS | 163 | 4654.7 | PMC SB 5/50 FS 401-450 | 157 |
| 2891.0 | SI/0,032A/F | 160 | 3907.8 | GKE 30/20 GE | 163 | 4655.7 | PMC SB 5/50 FS 451-500 | 157 |
| 2892.0 | SI/0,040A/F | 160 | 3908.0 | GKE 32/9 SI | 163 | 4656.7 | PMC SB 5/50 FS 501-550 | 157 |
| 2893.0 | SI/0,050A/F | 160 | 3908.7 | GKE 32/9 WS | 163 | 4657.7 | PMC SB 5/50 FS 551-600 | 157 |
| 2894.0 | SI/0,063A/F | 160 | 3908.8 | GKE 32/9 GE | 163 | 4658.7 | PMC SB 5/50 FS 601-650 | 157 |
| 2895.0 | SI/0,080A/F | 160 | 3909.0 | GKE 38/19 SI | 163 | 4659.7 | PMC SB 5/50 FS 651-700 | 157 |
| 2896.0 | SI/0,100A/F | 160 | 3909.7 | GKE 38/19 WS | 163 | 4660.7 | PMC SB 5/50 FS 701-750 | 157 |
| 2897.0 | SI/0,125A/F | 160 | 3909.8 | GKE 38/19 GE | 163 | 4661.7 | PMC SB 5/50 FS 751-800 | 157 |
| 2898.0 | SI/0,160A/F | 160 | 3910.0 | GKE 45/23 SI | 163 | 4662.7 | PMC SB 5/50 FS 801-850 | 157 |
| 2899.0 | SI/0,200A/F | 160 | 3910.7 | GKE 45/23 WS | 163 | 4663.7 | PMC SB 5/50 FS 851-900 | 157 |
| 2900.0 | SI/0,250A/F | 160 | 3910.8 | GKE 45/23 GE | 163 | 4664.7 | PMC SB 5/50 FW L1,L2,L3,N,PE | 157 |
| 2901.0 | SI/0,315A/F | 160 | 3911.0 | GKE 65/35 SI | 163 | 4665.7 | PMC SB 5/50 FS U1,V1,W1,N,PE | 157 |
| 2902.0 | SI/0,400A/F | 160 | 3911.7 | GKE 65/35 WS | 163 | 4666.7 | PMC SB 5/50 FS U1,V1,W1 | 157 |
| 2903.0 | SI/0,500A/F | 160 | 3911.8 | GKE 65/35 GE | 163 | 4667.7 | PMC SB 5/50 FS U2,V2,W2,N,PE | 157 |
| 2904.0 | SI/0,630A/F | 160 | 3912.0 | GKE 101/48 SI | 163 | 4668.7 | PMC SB 5/50 FS U2,V2,W2 | 157 |
| 2905.0 | SI/0,800A/F | 160 | 3913.0 | GKE 101/74 SI | 163 | 4669.7 | PMC SB 5/50 FS X1-X10 | 157 |
| 2906.0 | SI/1,25 A/F | 160 | 3914.8 | GKE 10/7 GE | 163 | 4670.7 | PMC SB 5/50 GW 1 | 157 |
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| 2908.0 | SI/2,5 A/F | 160 | 3916.0 | GKE 27/27 SI | 163 | 4672.7 | PMC SB 5/50 GW 3 | 157 |
| 2909.0 | SI/3,15 A/F | 160 | 3917.7 | GKE 30/6 WS | 163 | 4673.7 | PMC SB 5/50 GW 4 | 157 |
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| 2913.0 | SI/0,040A/T | 160 | 3923.8 | GKE 25.4/12.7 GE | 164 | 4677.7 | PMC SB 5/50 GW 8 | 157 |
| 2914.0 | SI/0,050A/T | 160 | 3924.8 | GKE 26/10 GE | 164 | 4678.7 | PMC SB 5/50 GW 9 | 157 |
| 2915.0 | SI/0,063A/T | 160 | 3925.8 | GKE 30/20 GE | 164 | 4679.7 | PMC SB 5/50 GW 0 | 157 |
| 2916.0 | SI/0,080A/T | 160 | 3926.8 | GKE 56/22 GE | 164 | 4680.7 | PMC SB 5/50 GW X | 157 |
| 2917.0 | SI/0,100A/T | 160 | 3927.8 | GKE 60/36 GE | 164 | 4681.7 | PMC SB 5/50 GW PE | 157 |
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| 4983.0 | SI/2,500 A/32F | 161 | 5682.3 | AP1/D orange | 153 | 5905.3 | RIM 4 S/1W/24V - | 99 |
| 4984.0 | SI/3,150 A/32F | 161 | 5683.0 | RF/SP1 orange | 153 | 5906.3 | RIMD 4 S/1W/24V + | 99 |
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| 5413.2 | RM-SG/1S/48V DC | 92 | 5704.2 | DM 14-A | 119 | 5953.3 | OKI 8/5 - G | 111 |
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| 5425.2 | RM-SG/1S/60V DC | 92 | 5707.2 | DM 22-K | 119 | 5961.3 | OKI 8/24 DC/AC | 110 |
| 5426.2 | RM-S/1S/60V DC | 92 | 5707.9 | DM 22-K/AD | 119 | 5962.3 | OKI 4/24 DC/AC G | 110 |
| 5430.2 | RM-SR/1S/115V DC/AC | 92 | 5708.2 | LPM 8-4K | 120 | 5963.3 | OKI 8/24 DC/AC G | 110 |
| 5431.2 | RM-SG/1S/115V DC/AC | 92 | 5708.9 | LPM 8-4K/AD* | 120 | 5964.3 | OKI 4/230 AC | 110 |
| 5433.2 | RM-SR/1O/115V DC/AC | 93 | 5709.2 | LPM 12-6K | 120 | 5970.3 | SSOIF 8 + | 112 |
| 5434.2 | RM-SG/1O/115V DC/AC | 93 | 5709.9 | LPM 12-6K/AD* | 120 | 5971.3 | SSOIF 8 - | 112 |
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| 5462.2 | RM1/1W/230V AC | 90 | 5738.2 | GM 1-0 | 25 | 6011.9 | BSM 4/AD* | 117 |
| 5463.2 | RMD1/1W/230V AC | 90 | 5744.2 | SD-S 50 | 126 | 6012.2 | RIM 8-16A/1W/24V + | 101 |
| 5550.2 | RM1/2W/24V DC | 91 | 5749.2 | SD-B 50 | 126 | 6013.2 | RIM 8 S-16A/1W/24V + | 101 |
| 5551.2 | RMD1/2W/24V DC | 91 | 5758.2 | GM 1-V/230 | 25 | 6014.2 | RIM 16-16A/1W/24V + | 101 |
| 5562.2 | RM1/2W/115V AC | 91 | 5759.2 | GM 1-V/230 | 25 | 6015.2 | RIM 16 S-16A/1W/24V + | 101 |
| 5563.2 | RMD1/2W/115V AC | 91 | 5770.2 | RM-SR/1W/24V DC | 93 | 6016.2 | RIM 2-16A/1W/24V + | 101 |
| 5564.2 | RM1/2W/230V AC | 91 | 5771.2 | RM-SG/1W/24V DC | 93 | 6017.2 | RIM 2 S-16A/1W/24V + | 101 |
| 5565.2 | RMD1/2W/230V AC | 91 | 5772.2 | RM-S/1W/24V DC | 93 | 6018.2 | RIM 4-16A/1W/24V + | 101 |
| 5566.2 | RIM 2/2W/24V + | 103 | 5773.2 | RM-SR/1W/24V DC/AC | 93 | 6019.2 | RIM 4 S-16A/1W/24V + | 101 |
| 5567.2 | RIMD 2/2W/24V + | 103 | 5774.2 | RM-SG/1W/24V DC/AC | 93 | 6021.2 | RIM 2/1W/24V + | 97 |
| 5568.2 | RIM 2/2W/24V - | 103 | 5775.2 | RM-S/1W/24V DC/AC | 93 | 6022.2 | RIM 2/1W/24V - | 97 |
| 5569.2 | RIMD 2/2W/24V - | 103 | 5776.2 | RM-SR/1W/48V DC | 93 | 6023.2 | RIM 2/1W/24 ACG | 97 |
| 5570.2 | RIM 2/2W/48V + | 103 | 5777.2 | RM-SG/1W/48V DC | 93 | 6024.2 | RIM 2/1W/48V + | 97 |
| 5571.2 | RIMD 2/2W/48V + | 103 | 5778.2 | RM-S/1W/48V DC | 93 | 6025.2 | RIM 2/1W/48V - | 97 |
| 5572.2 | RIM 2/2W/48V - | 103 | 5779.2 | RM-SR/1W/48V DC/AC | 93 | 6026.2 | RIM 2/1W/115V + | 97 |
| 5573.2 | RIMD 2/2W/48V - | 103 | 5780.2 | RM-SG/1W/48V DC/AC | 93 | 6027.2 | RIM 2/1W/115V - | 97 |
| 5574.2 | RIM 2/2W/48V + | 103 | 5781.2 | RM-S/1W/48V DC/AC | 93 | 6028.2 | RIM 2/1W/115 ACG | 97 |
| 5575.2 | RIMD 2/2W/48V + | 103 | 5782.2 | RM-SR/1W/60V DC | 93 | 6029.2 | RIM 2/1W/230 ACG | 97 |

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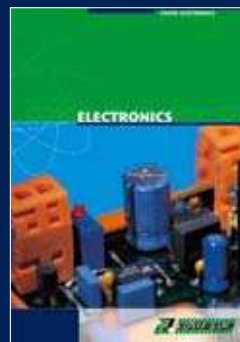


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