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ERG	-	1A	-	2	-	S	-	L	-	F	-	277VAC
Contact form SPNO 1A SPNC 1B SPCO 1C												
Coil Terminal Width 2.8mm 2 4.8mm 4												
Coil Voltage Class Insulation NIL B Class F F Class												
Sealing NIL Open (DC types only) S Sealed C Dust cover												
RoHS Compliant L RoHS Compliant												

Contact Arrangement	1A	1B	1C (NO)	1C (NC)
Initial Contact Resistance	50mΩ (at 1A 24VDC)			
Contact Material	AgSnO ₂			
Max. Switching Capacity	7200VA 560W	3600VA 280W	4800VA 560W	2400VA 280W
Max. Switching Voltage	277VAC/28VDC			
Max. Switching Current	40A	15A	20A	10A
Rating	30A 240VAC 20A 28VDC	15A 240VAC 10A 28VDC	20A 240VAC 20A 28VDC	10A 240VAC 10A 28VDC
Mechanical life				1 x10 ⁷ OPS
Electrical life				1 x10 ⁵ OPS

Coil power	DC: 0.9W AC: 2VA
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Initial Insulation Resistance		1000M Ω @ 500VDC
Dielectric Strength	Between coil & contacts	2500VAC 1min.
	Between open contacts	1500VAC 1min.
Operate time (at nomi. Volt)		Max. 15ms
Release time (at nomi. Volt)		Max. 10ms
Ambient temperature	Class B	DC:-55 to 85°C AC:-55°C to 60°C
	Class F	DC:-55 to 105°C AC:-55 to 85°C
Shock resistance	Functional	100m/s ²
	Destructive	1000m/s ²
Vibration resistance		-DA: 1.5mm, 10 to 55Hz
Humidity		98%, +40°C
Termination		PCB & QC
Unit Weight		Approx. 36g
Construction		Sealed IP67 & Dust Cover

Nominal Voltage VAC	Pick-up Voltage VAC	Drop-out Voltage VAC	Max. allowable Voltage (at 25 °C)	Coil Resistance Ω
12	9.6	2.4	15.6	25±10%
24	19.2	4.8	31.2	100±10%
120	96.0	24.0	156	2500±10%
208	166.4	41	270.4	11000±10%
220/240	192	48	286/312	13490±10%
277	220	54	360.1	15000±10%

Miniature High Power Relay ERG



Coil Data: VDC

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. allowable Voltage (at 25°C)	Coil Resistance Ω
5	3.75	0.5	6.5	$27 \pm 10\%$
6	4.50	0.6	7.8	$40 \pm 10\%$
9	6.75	0.9	11.7	$97 \pm 10\%$
12	9.00	1.2	15.6	$155 \pm 10\%$
15	11.25	1.5	19.5	$256 \pm 10\%$
18	13.50	1.8	23.4	$380 \pm 10\%$
24	18.00	2.4	31.2	$660 \pm 10\%$
48	36.00	4.8	62.4	$2560 \pm 10\%$
70	52.50	7.0	91	$5500 \pm 10\%$
110	82.50	11	143	$13450 \pm 10\%$

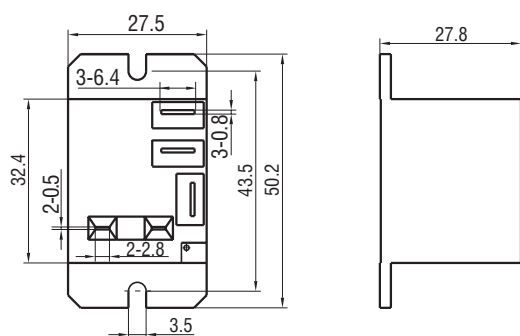
Safety Approval Ratings

UL	1 Form A	30A 277VAC 20A 28VDC 2HP 250VAC 1HP 125VAC 277VAC(FLA=20) (LRA=60)
	1 Form B (NC)	15A 277VAC 10A 28VDC 1/2HP 250VAC 1/4HP 125VAC 277VAC(FLA=10) (LRA=33)
	1 Form C (NO)	30A 277VAC 10A 277VAC 20A 28VDC 2HP, 250VAC 1HP, 125VAC 277VAC(FLA=20) (LRA=60)
	1 Form C (NC)	20A 277VAC 10A 277VAC 10A 28VDC 1/2HP 250VAC 1/4HP 125VAC 277VAC(FLA=10) (LRA=33)
TÜV		15A 250VAC Cos phi=0.4

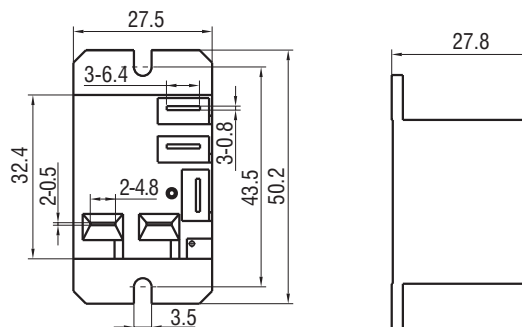
Outline dimensions

Wiring diagram and PC Board layout

2.8mm coil terminal width

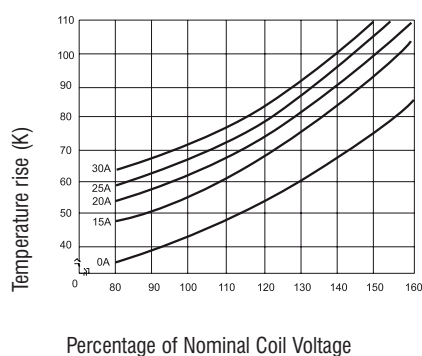


4.8mm coil terminal width

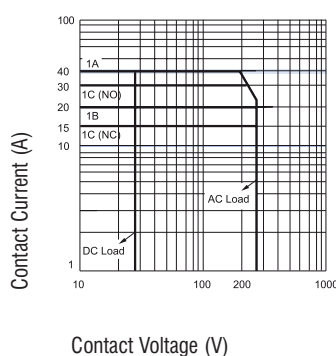


Characteristic Curve

COIL TEMPERATURE RISE



MAXIMUM SWITCHING POWER



ENDURANCE CURVE

