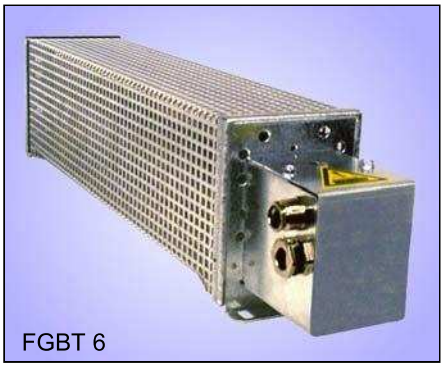
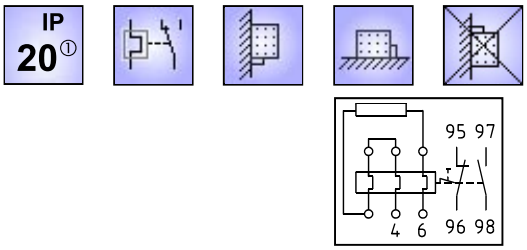
Type series FGT / FGBT / FGLT

0,25 – 3,0 kW with 2 terminals





Wirewound lamina type fixed resistor, degree of protection IP 20① in zinc plated steel sheet enclosure. Cable glands and as well as thermal overload relay in attached terminal box.

① mounted on an appropriate surface

Technologies

- integrated thermal overload relay up to 24 A
- with thermal protection
- connections directly at the overload relay
- current is adjusted
- Wall mounting or mounting on the switch cabinet

Thermal overload relay

The thermal overload relay is mounted in the attached terminal box and may signal an overloading of the resistor. This is done by contacts normally closed/opened free of potential (NC/NO). This signal has to be considered by the customer, e.g. by warning or net side disconnection.

Warning: There will not be a disconnection of the resistor!

Cross sections / cable glands:

fine stranded, for relays up to	connection in mm²	
	13A	24A
main current	1 x 2,5	2 x 6
auxiliary curr.	1 x 2,5	2 x 2,5
Cable glands	PG9 + PG11	M12 + PG16

Contact rating of the signal contacts:

- 2 A / 24 VDC (DC11)
- 2 A / 230 VAC (AC11)

Application

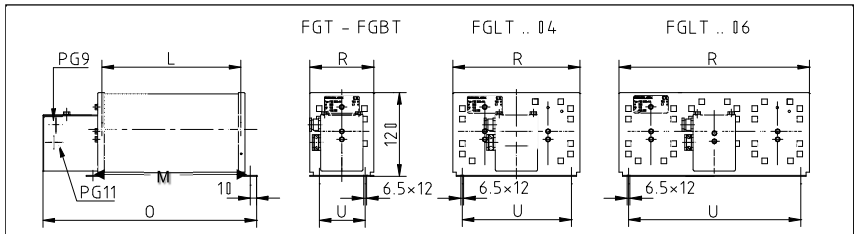
Braking resistors for motor/generator drive of motors with frequency converters with monitoring of the current.

Special design

- Version of low inductance and low noise (support strap from aluminium or stainless steel)

Electrical and mechanical data

type	power in kW at 40°C and 100% DCF	production range Ω–value		# of lamina and size	dimensions in mm						max. weight in kg
									overload relay up to		
		from	up to		L	M	R	U	13A O	24A O	
FGT 2	0,25	0,46	40	2 L2	140	184	92	64	260	293	1,9
FGT 3	0,39	0,72	62	2 L3	210	254	92	64	330	363	2,3
FGT 4	0,50	0,89	86	2 L4	260	304	92	64	380	413	3,0
FGT 5	0,63	1,12	100	2 L5	340	384	92	64	460	493	3,2
FGT 6	0,75	1,35	130	2 L6	390	434	92	64	510	543	3,4
FGT 7	0,90	1,58	150	2 L7	445	489	92	64	565	598	3,7
FGT 8	1,00	1,82	170	2 L8	520	564	92	64	640	673	4,1
FGBT 2	0,37	0,68	24	2 LB2	140	184	92	64	260	293	2,1
FGBT 3	0,57	1,05	36	2 LB3	200	254	92	64	330	363	2,5
FGBT 4	0,74	1,29	50	2 LB4	260	304	92	64	380	413	3,2
FGBT 5	0,92	1,62	64	2 LB5	320	364	92	64	440	473	3,4
FGBT 6	1,10	1,96	78	2 LB6	380	434	92	64	510	543	3,6
FGBT 7	1,30	2,3	90	2 LB7	440	489	92	64	565	598	4,0
FGBT 8	1,50	2,64	100	2 LB8	500	544	92	64	620	653	4,6
FGLT 640402	1,00	1,77	170	4 L4	260	300	185	150	380	413	4,6
FGLT 660402	1,50	2,7	260	4 L6	390	430	185	150	510	543	5,6
FGLT 680402	2,00	3,63	350	4 L8	520	560	185	150	640	673	6,6
FGLT 660602	2,20	4,05	390	6 L6	390	430	275	240	510	543	7,6
FGLT 680602	3,00	5,45	530	6 L8	520	560	275	240	640	673	9,6



15 M 0118 (13A; PG9+PG11) + 15 M 0119 (24A; M12+PG16)

Example of dimensioning and selection of a specific unit:

Monophase braking resistor for drive with frequency converter, short time power: 8,4 kW at 15% ED, , total cycle time shorter than 120 s, intermediate circuit voltage 650V; resistance value 50 Ω; calculation of the continuous dissipation: 8,4 kW : 4,2 = 2 kW selected: FGLT 680402 – 50 with continuous dissipation 2 kW

FGLT 68 04 02 - 50 — ohmic value ± 10%; set current 6,4A
- 02 — number of terminals
- 04 — number of laminas
- 68 — size
- FGLT — type series