



Type series FG / FGB / FGL

0,25 – 3,0 kW with 2 terminals



Wirewound lamina type fixed resistor, degree of protection IP 20<sup>①</sup> in zinc plated steel sheet enclosure with 2 terminals and PG11-cable gland in attached terminal box.

<sup>①</sup> mounted on an appropriate surface

### Technologies

- flat construction form
- continuous dissipations up to 3,0 kW
- Wall mounting or mounting on the switch cabinet
- adjustable clips available for all type series, besides FGB
- up to 20A 2-pole porcelain terminal
- up to 35A 2-pole flat terminal

The given power rating values are valid for 100% DCF (continuous dissipation). For short time operation you will find the values in the following table as a function of the duty cycle factor (DCF). Just multiply by the corresponding overload factor (OLF).

ED	60%	40%	25%	15%	6%
ÜF	1,5	2,2	3,0	4,2	8,2

These overload factors are valid for a total cycle time of maximum 120 s.

You will find further details in chapter Technical Details, pages T513E - T517E.

There are various applications for wall mounting or mounting on the switch cabinet because of the flat and compact construction.

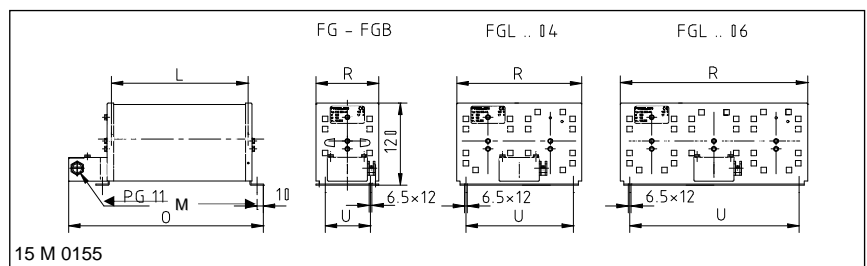
An important application is the use as braking resistor for motor/generator drive of motors with frequency converters.

### Special design

- Version of low inductance and low noise (support strap from aluminium or stainless steel)
- version with degree of protection IP00 type series FK / FKB / FKL on request

### Electrical and mechanical data

type	power in kW at 40°C and 100% DCF	production range Ω-value		number of laminas and size	dimensions in mm					max. weight in kg
		from	up to		L	M	R	U	O	
FG 2	0,25	0,23	40	2 L2	140	184	92	64	240	1,3
FG 3	0,39	0,36	62	2 L3	210	254	92	64	310	1,7
FG 4	0,50	0,49	86	2 L4	260	304	92	64	360	2,4
FG 5	0,63	0,62	100	2 L5	340	384	92	64	440	2,6
FG 6	0,75	0,75	130	2 L6	390	434	92	64	490	2,8
FG 7	0,90	0,90	150	2 L7	445	489	92	64	545	3,0
FG 8	1,00	1,0	170	2 L8	520	564	92	64	620	3,5
FGB 2	0,37	0,34	24	2 LB2	140	184	92	64	240	1,5
FGB 3	0,57	0,53	36	2 LB3	200	254	92	64	310	1,9
FGB 4	0,74	0,72	50	2 LB4	260	304	92	64	360	2,6
FGB 5	0,92	0,90	64	2 LB5	320	364	92	64	420	2,8
FGB 6	1,10	1,1	78	2 LB6	380	434	92	64	490	3,0
FGB 7	1,30	1,3	90	2 LB7	440	489	92	64	545	3,4
FGB 8	1,50	1,5	100	2 LB8	500	544	92	64	600	4,0
FGL 640402	1,00	1,0	170	4 L4	260	300	185	150	360	4,0
FGL 660402	1,50	1,5	260	4 L6	390	430	185	150	490	5,0
FGL 680402	2,00	2,0	350	4 L8	520	560	185	150	620	6,0
FGL 660602	2,20	2,2	390	6 L6	390	430	275	240	490	7,0
FGL 680602	3,00	3,0	530	6 L8	520	560	275	240	620	9,0



### Example of dimensioning and selection of a specific unit:

Monophase braking resistor for drive with frequency converter, short time power: 8 kW at 6% DCF, total cycle time shorter than 120 s, intermediate circuit voltage 650 V; resistance value 50 Ω; Calculation of the continuous dissipation: 8kW : 8,2 = 0,98 kW. selected: FG 8 – 50 with continuous dissipation 1kW

