

Type series FGN / FGBN

0,5 – 4,4 kW with up to 10 terminals



Wirewound lamina type fixed resistor, degree of protection IP 20<sup>Ⓛ</sup> in fixed condition, in zinc plated steel sheet enclosure with ceramic insulated flat terminals up to 35 A and ceramic insulated bolt terminals for higher currents inside the device. With drillings for 3 cable entry points PG 13,5, which are closed by rubber sockets.

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

### Technologies

- Continuous dissipation up to 4,4 kW
- Wall mounting and mounting on the switch cabinet
- Up to 10 terminals possible
- Adjustable clips possible

The connections are accessible after demounting a part of the cover.

FGBN-version is equipped with wider laminas and therefore suited for higher power ratings.

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.

The number of terminals is determined by position 5 and 6 of the type designation.

### Application

- Three-phase load resistors
- Starting and regulating resistors for three-phase slip-ring rotor motors
- current limiting resistors for three-phase squirrel-cage motor

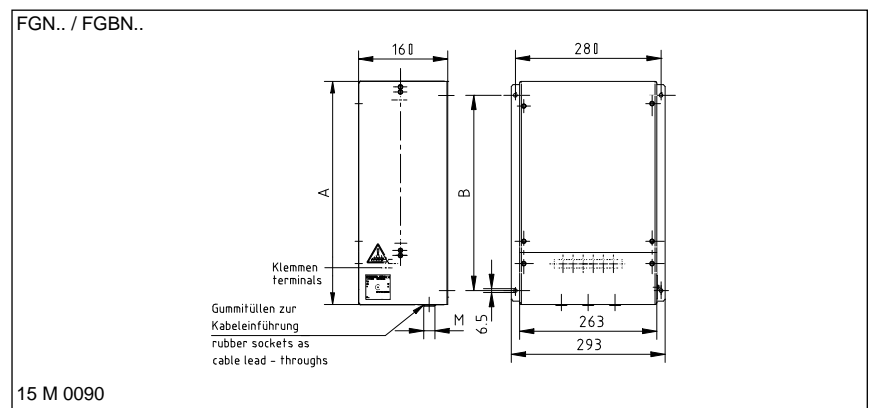
### Special design

- version with degree of protection IP00 type series FKN / FKBN. The dimensions are identical with FGN / FGBN

### Electrical and mechanical data

type	power in kW at 40°C and 100%DCF	production range $\Omega$ -value (single-phase)		max. number of lamina and size	maximum # of terminals in dependency of the size		
		from	up to		FK – flat terminals	BK – bolt terminals	
					FK	BK M6	BK M8
FGN 6406..	1,5	1,5	250	6 L4	10 pcs..	8 pcs.	7 pcs.
FGBN 6406..	2,2	2,2	150	6 LB4	max.	max.	max.
FGBN 6606..	3,3	3,3	230	6 LB6	35A	60A	115A
FGBN 6806..	4,4	4,5	310	6 LB8			

type	dimension in mm		weight in kg
	A	B	
FGN 6406..	400	350	7,0
FGBN 6406..	400	350	9,0
FGBN 6606..	517	470	11
FGBN 6806..	634	580	14



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

Three-phase load resistor 3 x 1,4 kW = 4,2 kW for 3 x 230/400 V; 50 Hz; 3 x 6,1 A; 3 x 38  $\Omega$ , each phase wired on 2 flat terminals 35 A.

selected: FGBN 680606 – 3 x 38 with continuous dissipation 4,4 kW

FGBN 68 06 06 - 3 x 38 — ohmic value  $\pm$  10%  
 — number of terminals  
 — number of laminas  
 — size  
 — type series