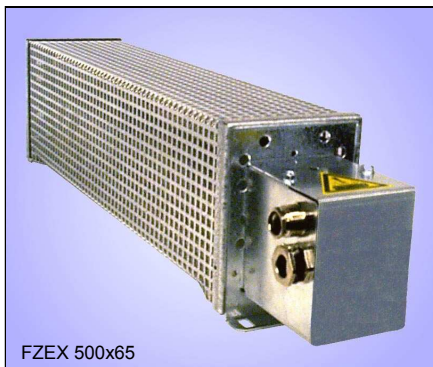




### Type series FZEX / FZZX / FZDX and FZVX / FZFX / FZSX

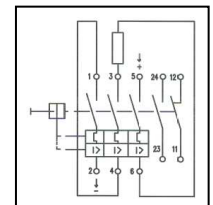
300 - 6000 W – intrinsically safe



Cemented wirewound tubular fixed intrinsically safe resistor in one- up to six-tube design, degree of protection IP20 if mounted on an appropriate surface. Connections at the integrated FRIZLEN DC-POWERSWITCH<sup>®</sup> in the attached terminal box with cable gland PG9 and PG11 (up to 16 A) or with M12 and PG16-cable gland (>16 A). Switch off by overload.

① if mounted on an appropriate surface

④ German patented design no. DGBM 20 2009 015 851.9



### Technologies

- intrinsically safe resistor
- attention: only suitable for DC voltage up to 850 VDC
- integrated FRIZLEN DC-POWERSWITCH up to 25 A
- switch off by overload
- factory adjusted
- connection directly at the FRIZLEN DC-POWERSWITCH
- protected against access to hazardous parts
- wall mounting or mounting on switch cabinets

### Intrinsically safe resistor through FRIZLEN DC-POWERSWITCH

These type series with overload switch is able to protect the integrated resistors from constant overload and from too high short time peak power, e.g. caused by a false operational mode or a fault by an short circuited chopper transistor.

This option for protection not only signals the hardware fault, it switches off the object / the resistor absolutely reliable! Possible damage in the environment by overheating and burning are effectively avoided. The actual fault is reported by potential free N/O and N/C contacts. After a successful fault clearance the DC-POWERSWITCH can be switched on like a normal automatic cutout.

### Connection cross section /screwing:

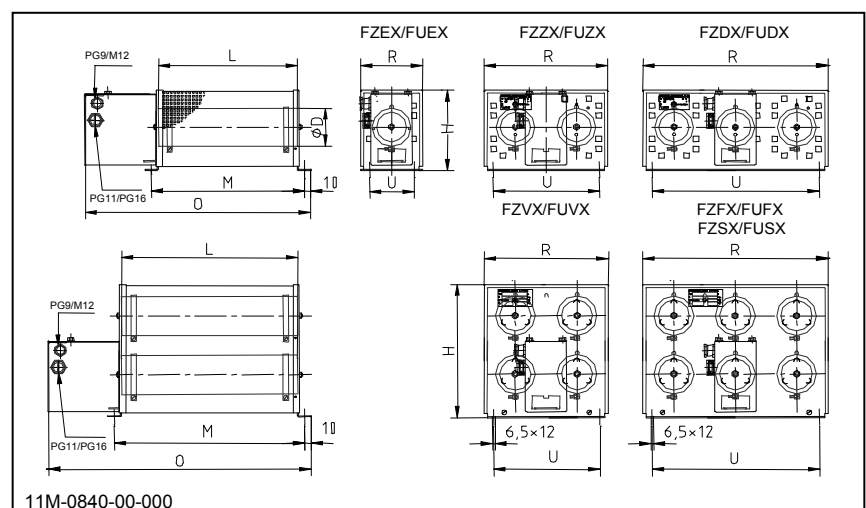
fine stranded, up to	connection in mm <sup>2</sup>
main current	2,5 mm <sup>2</sup> - 10 mm <sup>2</sup> (AWG 14 – AWG 8)
auxiliary current	1,5 mm <sup>2</sup>

### Contact ratings of the signal contacts:

- 5 A / 24 VDC (DC11)
- 10 A / 230 VAC (AC11)

### Electrical and mechanical data

Type series	typical power in W at 40°C, 100% DCF	production range Ω-value		dimension in mm					approx. weight in kg
		von	bis	H	M	O	R	U	
L x D									
FZEX 200x65	300	4,7	3,9k	120	230	405	92	80	2,4
FZEX 300x65	430	6,8	2,7k	120	330	505	92	80	2,7
FZEX 400x65	600	10	1,8k	120	430	605	92	80	3,2
FZEX 500x65	800	12	1,5k	120	530	705	92	80	3,7
FZEX 600x65	1000	15	1,0k	120	630	805	92	80	4,4
FZZX 300x65	860	3,9	1,2k	120	326	505	185	150	4,4
FZZX 400x65	1200	5,6	1,0k	120	426	605	185	150	5,2
FZZX 500x65	1600	6,8	680	120	526	705	185	150	6,1
FZZX 600x65	2000	8,2	560	120	626	805	185	150	7,1
FZDX 300x65	1300	2,7	820	120	326	505	275	240	6,4
FZDX 400x65	1800	3,3	560	120	426	605	275	240	7,4
FZDX 500x65	2400	3,9	470	120	526	705	275	240	8,4
FZDX 600x65	3000	5,6	390	120	626	805	275	240	9,7
FZVX 400x65	2400	3,9	470	210	426	605	185	150	9,5
FZVX 500x65	3200	5,6	330	210	526	705	185	150	11,3
FZVX 600x65	4000	6,8	270	210	626	805	185	150	13,3
FZFX 400x65	3000	5,6	390	210	426	605	266	240	11,9
FZFX 500x65	4000	6,8	270	210	526	705	266	240	13,9
FZFX 600x65	5000	8,2	180	210	626	805	266	240	16,4
FZSX 400x65	3600	6,8	330	210	426	605	266	240	13,9
FZSX 500x65	4800	8,2	220	210	526	705	266	240	15,9
FZSX 600x65	6000	10	180	210	626	805	266	240	18,9



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