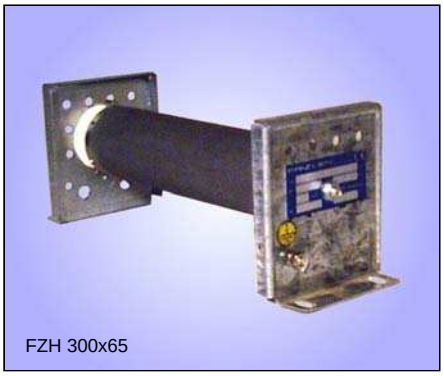
Type series FZH / FZZH / FZDH

430 – 3000 W with side-panels


FZH 300x65

IP 00 | E

Cemented wirewound tubular fixed resistor, degree of protection IP00 with side-panels, fixing parallel to mounting surface. Connections at screw or fast-on clips at the resistor.

Technologies

- connection directly at the resistor
- integration into switch cabinets
- adjustable clips possible

The given power values are valid for 100%DCF (continuous dissipation) at an ambient temperature of max. 40℃ and a surface temperature (ST) of 300℃. The values can be increased by the factor 1,3. Then the ST will increase up to approx. 350℃.
The given power values can be essentially increased during short time operation as a function of the duty cycle factor (DCF) The peak power can be easily calculated. Just multiply the values by the corresponding overload factors (OLF) of this table:

DCF	60%	40%	25%	15%	6%
OLF	1,5	2,2	3,2	5,0	9,5

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

Application

Various applications derive from the compact construction form. Is to be integrated into a switch cabinet.

This low price alternative is suitable for educational modelling applications e.g. with protected extra-low voltage.

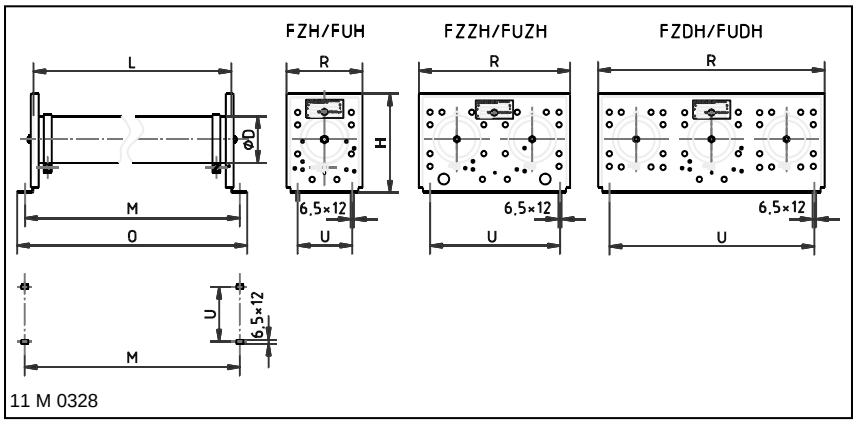
Special design

- with temperature switch (TS), type designation then FZ.HQ, connection of the TS at fast-on connections 6,3 x 0,8

Electrical and mechanical data

Type series L x D	typical power in W at 40℃, 100% DCF as well as 300℃ ST	production range Ω–value from	up to	dimensions in mm H	M	O	R	U	approx. weight in kg
FZH 300x65	430	6,8	47k	120	320	340	92	64	1,5
FZH 400x65	600	10	68k	120	420	440	92	64	1,9
FZH 500x65	800	12	82k	120	520	540	92	64	2,2
FZH 600x65	1000	15	100k	120	620	640	92	64	2,6
FZZH 300x65	860	3,9	82k	120	320	340	185	150	3,0
FZZH 400x65	1200	5,6	120k	120	420	440	185	150	3,8
FZZH 500x65	1600	6,8	150k	120	520	540	185	150	4,4
FZZH 600x65	2000	8,2	180k	120	620	640	185	150	5,2
FZDH 300x65	1300	2,7	82k	120	320	340	275	240	4,5
FZDH 400x65	1800	3,3	120k	120	420	440	275	240	5,7
FZDH 500x65	2400	3,9	150k	120	520	540	275	240	6,6
FZDH 600x65	3000	5,6	180k	120	620	640	275	240	7,8

For further details concerning the range of ohmic values with adjustable clips please see pages T109E/110E.



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Example of dimensioning and selection of a specific unit:

one-phase load resistor for experimental setup:
Continuous dissipation approx.. 350 W at 7,5 Ω; resistance value adjustable between about 5 - 15 Ω; rating voltage 50 V DC, resistance value variable by additional adjustable clip, connection at screw connections,
selected: FZH 500 x 65 F – 15 with continuous dissipation 800 W (400 W at R/2)

FZH 500x65 F - 15
- 15 → ohmic value ± 10%
- F → with 1 adjustable clip
- 500x65 → according to list
- FZH → type