



Power Supply Systems
Class III Surge Arresters

DEHNrail
Surge protective device

Red / Line

For protection of the power supply circuit of industrial electronics equipment against transient surges in switchboards.

For protecting electronic equipment against surges (in overvoltage category II in accordance with DIN VDE 0110-1:1997-04).
Surge protective device of **Class III** in accordance with E DIN VDE 0675-6:1989-11 and -6/A1:1996-03.

- 2-pole surge protection circuit with supervisory device and disconnection device
- visual function indicator (green), visual fault indicator (red)
- floating remote alarm contact (break contact) for fault indication (power supply is not interrupted)

See Installation Instructions No. 1267 for further information on use.

See page 62 for Technical Data.

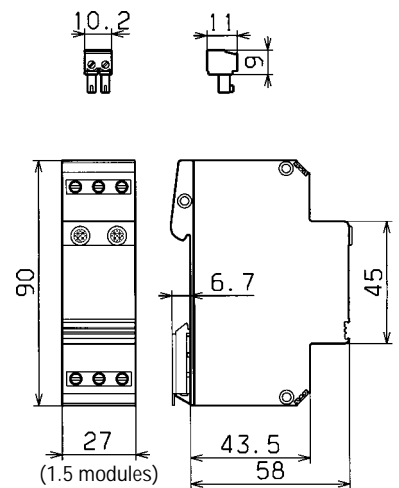
DEHNrail

Type	Article No.
DEHNrail 230 FML	901 100
DEHNrail 120 FML	901 101
DEHNrail 60 FML	901 102
DEHNrail 48 FML	901 103
DEHNrail 24 FML	901 104

DEHNrail



Dimensional drawing of DEHNrail





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Technical Data:						
DEHNrail ... FML		230	120	60	48	24
tested to		E DIN VDE 0675-6:1989-11 and -6/A1:1996-03				
nominal voltage	U_N	230 V~	120 V~	60 V~	48 V~	24 V~
rated voltage (maximum continuous operating voltage)	U_c	255 V~/~	150 V~/~	75 V~/~	60 V~/~	30 V~/~
nominal current	I_N	16 A				
nominal discharge current (8/20) L (N) \Rightarrow PE, L \Rightarrow N L + N \Rightarrow PE	i_{sn}	3 kA 5 kA	2.5 kA 5 kA	2.5 kA 5 kA	1 kA 2 kA	1 kA 2 kA
combination wave L (N) \Rightarrow PE, L \Rightarrow N L + N \Rightarrow PE	U_{oc}	6 kV 10 kV	5 kV 10 kV	5 kV 10 kV	2 kV 4 kV	2 kV 4 kV
voltage protection level L \Rightarrow N L (N) \Rightarrow PE	U_p	≤ 1.25 kV ≤ 1.5 kV	≤ 700 V ≤ 800 V	≤ 500 V ≤ 800 V	≤ 350 V ≤ 800 V	≤ 200 V ≤ 800 V
response time L \Rightarrow N L (N) \Rightarrow PE	t_A	≤ 25 ns ≤ 100 ns				
backup fuse (only required if not already provided in mains)		16 A gL/gG or C 16 A				
operating temperature range	ϑ	- 40° C ... + 80° C				
cross-sectional area		min. 0.5 mm ² single-/fine-stranded max. 4 mm ² fine-stranded/6 mm ² single-stranded				
mounting on		35 mm DIN-rail in accordance with EN 50022				
enclosure material		red thermoplastic				
degree of protection		IP 20				
installation width		1.5 modules, DIN 43880				
approval		MEEI				
remote alarm contacts type		break contact				
contact rating	U_N/I_N	AC: 250 V / 0.5 A DC: 250 V / 0.1 A 125 V / 0.2 A 75 V / 0.5 A				
cross-sectional area of remote alarm terminals		max. 1.5 mm ² single-/fine-stranded				

Basic circuit diagram of DEHNrail

