OVERVOLTAGE PROTECTION FOR INSTRUMENTATION AND CONTROL

DM-CCT-R

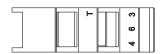
It is used as a protection of appliances against the overvoltage, which is propagating through data and communication lines. It enables the protection of two wires lines or of two one wire lines (symmetrical or asymmetrical systems). It is commonly used in the area of measuring, controlling, and the area of digital and analogue information transmission equipment.

The SPD has been created as the two-stage system with the stepwise overvoltage reduction down to allowable values. In the first stage are used the efficient spark plugs while fast suppressing diodes are used in the second stage. The correct operation requests the proper connection according to this recomandation, respecting connecting diagram as it is printed on the housing.

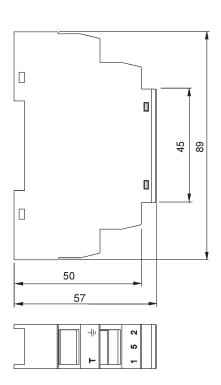
The SPD is encased in the plastic housing designed for mounting on DIN 35 rail.



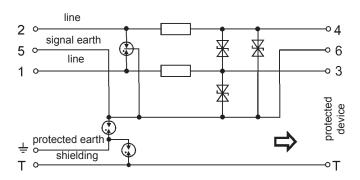
DIMENSIONS







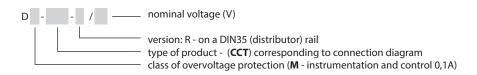
CONNECTION DIAGRAM



TECHNICAL PARAMETERS

Nominal voltage	U _n	8 V=	12 V=	16 V=	24 V=	48 V=		
Max. operating voltage	U_{c}	1,15. U _n						
Rated load current	IL	100 mA						
Nominal discharge current (8/20)	I _n	5 kA						
Max. discharge current (8/20)	I _{max}	10 kA						
Max. discharge current (10/350)	I _{max}	2,5 kA						
Voltage protection level for I _{max}	U_p							
line / line		25 V	≤ 23 V	≤ 29 V	≤ 36 V	≤ 72 V		
line / sign. earth		15 V	≤ 23 V	≤ 29 V	≤ 36 V	≤ 72 V		
Voltage protection level for 1 kV/µs								
line / protection earth		≤ 450 V						
sign. earth /protection earth								
Response time	t _A							
line / line		≤ 1 ns						
line / sign. earth		≤ 1 ns						
line / protection earth		≤ 100 ns						
sign. earth / protection earth		≤ 100 ns						
shielding / protection earth		≤ 100 ns						
Limit frequency / baud rate	f _o	3 MHz / 1,5 MBit/s						
Imput resistance (line / sig. earth)	R_V	≤ 1 MΩ						
Longitudinal impedance / line	R_L	max. 10 Ω						
Operating temperature range		-25 °C +80 °C						
Connection		input/output: terminal for cable 0,5 - 2,5 mm ² ; wire 0,2 - 4 mm ²						
Products comply with norms IEC 61643-21		C2; D1						

PRODUCT SPECIFICATION



TYPE	Order number							
	8 V	12 V	16 V	24 V	48 V			
DM-CCT-R	94.058	94.059	94.060	94.061	94.062			