


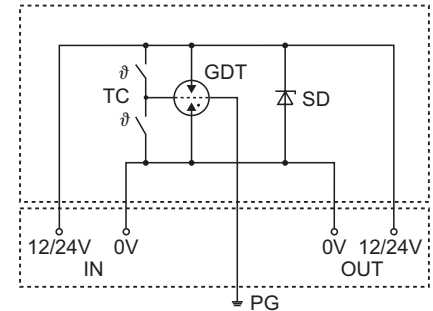
surge protection of DC power supplies

 NEW product

- **Purpose:** the **RP-DC** series has been developed to protect DC power supplies
- **Mounting:** direct mounting on 35 mm DIN rail mount, EN 50022
- **Overvoltage protection:** coarse protection is provided by a three terminal gas discharge tube while fine protection is provided using a high speed silicon stage
- **Thermal protection:** internal thermal disconnectors are used to reduce the hazards of thermal runaway during fault conditions, or if mains incursion onto the low voltage data circuit, occurs
- **Housing:** module design with changeable protective insert
- **Compliance with standard:** PN-IEC 61643-1
- **Recognitions, certifications:** 




RP-DC 12V, RP-DC 24V



Legend:

- TC thermo-clip
- GDT gas discharge tube
- SD signal-direction TVS diode
- PG protective grounding

Type of arrester	RP-DC 12V	RP-DC 24V
Technical data		
Protection construction	two parts: base and extractable insert 	
Number of protected pairs	1 (2 conductors)	
Nominal operating voltage U_n	12 V DC	24 V DC
Max. continuous operating voltage U_c	15 V DC	28 V DC
Rated spark overvoltage		
• (12/24V-0V)	15...19 V	30...36 V
• (12/24V / 0V-PG)	184...276 V	184...276 V
Nominal current at 25 °C I_n	10 A	
Nominal discharge current (8/20) I_{sn}	10 kA	
Max. discharge current (8/20) I_{max}	20 kA	
Residual voltage at 5 kA (8/20 μ s)	< 32 V (0,12)	< 60 V (0,24)
Response time t_A	< 1 ns	
Thermal protection	thermo-clip TC	
Insulation resistance (12/24V-0V)	$\geq 12 \text{ M}\Omega / 12 \text{ V DC}$	$\geq 24 \text{ M}\Omega / 24 \text{ V DC}$
Insulation resistance (12/24V / 0V-PG)	$> 1 \text{ G}\Omega / 100 \text{ V}$	
Serial resistance R	< 0,1 Ω	
Transverse capacitance C	< 1 nF	< 3 nF
Limit frequency f_G	30 MHz	
Operating temperature ϑ	-40...+80 °C	
Cross-section of connection wire	max. 6 mm ²	
Terminal screw torque	0,25 Nm	
Housing protection category	IP 20	
Housing material	thermoplastic, extinguishing degree UL 94 V-0	
Housing colour	yellow	
Dimensions	90 x 17,5 x 68 mm (DIN 43880: 1TE)	

 Universal base 12/24 V DC. Selected inserts 12 V DC or 24 V DC.

