

- **Category IEC / EN / VDE:** Class I, II, III / Type 1, 2, 3 / B+C+D
- **Purpose:** the **RPBC-12.5** series of low cost, overvoltage surge protective devices has been developed to protect against partial direct and indirect lightning discharges and is intended to provide protection in zones **0_A-1** as per PN-EN (IEC) 62305. The circuit topology consists of two varistor stages each protected by a thermal disconnection device. Each single phase unit comprises two high performance varistor blocks. A unique indicator monitors all disconnectors and brings up a common status flag if any one stage should fail, while the plug-in module / base design facilitates replacement of a failed module without the need to remove system wiring etc.
- **Application site:** the arresters are mounted in the main-distribution boards (MB)
- **Mounting:** direct mounting on 35 mm DIN rail mount, PN-EN 60715
- **Status indication:** mechanical flag + remote contact RC
- **Remote signalisation:** **RPBC-12.5/280/1** - without RC damage contact
RPBC-12.5/280/1R - with potential-free signaling RC damage contact
- **Housing:** module design with changeable varistor insert
- **Compliance with standard:** PN-IEC 61643-1
- **Recognitions, certifications:** 

Type of arrester

RPBC-12.5/280/1, RPBC-12.5/280/1R

Technical data

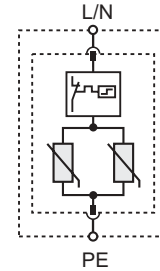
Max. continuous operating voltage	U_c	275 / 350 V AC/DC
Nominal discharge current (8/20)	I_n	25 kA
Max. discharge current (8/20)	I_{max}	60 kA
Combination wave (1,2/50, 8/20)	U_{oc}/I_{sc}	10 kV / 5 kA
Current peak value (10/350)	I_{imp}	12,5 kA
Specific energy		39 kJ/ Ω
Charge Q		6,25 As
Protection level	U_p	
• at I_n (8/20)		1,4 kV
• at I_{imp} (10/350)		1,0 kV
Follow current	I_f	no
Response time	t_A	< 25 ns
Thermal protection		yes
Back-up fuse		160 A gL (if mains > 160 A)
Short-circuit withstand		25 kA 50 Hz
Temperature range		-40...+80 °C
Cross-section of connection wire		solid: 35 mm ² stranded: 25 mm ²
Terminal screw torque		max. 3,5 Nm
Housing protection category		IP 20 PN-EN 60529
Housing material		thermoplastic, extinguishing degree UL 94 V-0
Dimensions		90 x 17,5 x 72 mm (DIN 43880: 1TE)
Packaging dimensions		108 x 24 x 74 mm
Weight		161 g

Additional data for RPBC-...R

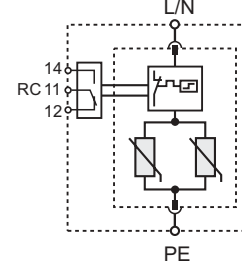
Remote signalisation	potential-free contact RC
Switching capability	0,5 A / 250 V AC 3 A / 125 V AC
Cross-section of connection wire	max. 1,5 mm ²
Terminal screw torque	0,25 Nm
Weight	166 g



RPBC-12.5/280/1



RPBC-12.5/280/1R



Selection of backup fuse

