· Category IEC / EN / VDE: Class I / Type 1 / B+C

· Purpose: the RPBC-75 (3+0) series of overvoltage surge protective devices has been developed to protect against partial direct and indirect lightning discharges and is intended to provide protection in zones $\mathbf{0}_{A}$ - $\mathbf{1}$ as per PN-EN (IEC) 62305. The (3+0) range is intended to be used on TNC three phase networks with PEN conductor. The circuit topology consists of three varistor stages each protected by a thermal disconnection device. Each three phase unit comprises a total of three high performance dual MOV blocks, providing a high surge rating suitable for primary service entrance applications. A unique indicator monitors all disconnectors and brings up a common status flag if any one stage should fail

· Application site: the arresters are mounted in the main-distribution

boards (MB)

· Mounting: direct mounting on 35 mm DIN rail mount, EN 50022

· Status indication: mechanical flag + remote contact RC

• Remote signalisation: RPBC-75/280/3 - without RC damage contact

RPBC-75/280/3R - with potential-free signaling

RC damage contact

· Housing: compact design · Compliance with standard: PN-IEC 61643-1

• Recognitions, certifications: (€

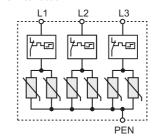
Type of arrester RPBC-75/280/3, RPBC-75/280/3R

Type of all estel		NFD0-73/200/0, NFD0-73/200/0N
Technical data		
Max. continuous operating voltage	Uc	275 / 350 V AC/DC
Nominal discharge current (8/20)	In	per pole: 40 kA
Max. discharge current (8/20)	I _{max}	per pole: 100 kA
Current peak value (10/350)	I _{imp}	per pole: 25 kA
(L1+L2+L3-l	PEN)	75 kA
Specific energy		per pole: 156 kJ/ Ω
Charge Q		per pole: 12,5 As
Protection level	Up	
• at In (8/20)		1,4 kV
• at I _{imp} (10/350)		1,1 kV
Follow current	If	no
Response time	t _A	< 25 ns
Residual current at Uc	I _{PE}	< 2,5 mA
Thermal protection		yes
Back-up fuse		max. 250 A gL (if mains > 250 A)
Short-circuit withstand		25 kA 50 Hz
Temperature range		-40+80 °C
Cross-section of connection wi	re	solid: 35 mm²
		stranded: 25 mm ²
Terminal screw torque		max. 4,5 Nm
Housing protection category		IP 20
Housing material		thermoplastic,
		extinguishing degree UL 94 V-0
Dimensions		90 x 54 x 70 mm (DIN 43880: 3TE)
Packaging dimensions		108 x 79 x 76 mm
Weight		610 g
Additional data for RPB	CF	?
Remote signalisation		potential-free contact RC
Switching capability		0,5 A / 250 V AC
		3 A / 125 V AC
Cross-section of connection wi	re	may 1.5 mm ²

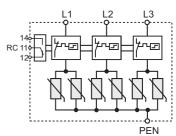
Remote signalisation potential-free contact RC Switching capability 0,5 A / 250 V AC 3 A / 125 V AC Cross-section of connection wire max. 1,5 mm²
3 A / 125 V AC Cross-section of connection wire max. 1,5 mm²
Cross-section of connection wire max. 1,5 mm ²
7
Terminal screw torque 0,25 Nm
Weight 620 g

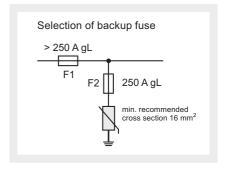


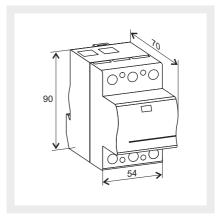
RPBC-75/280/3



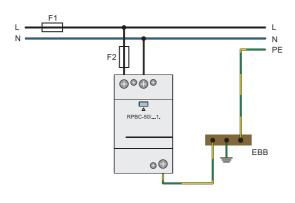
RPBC-75/280/3R



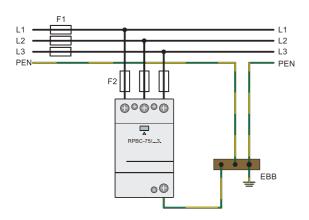




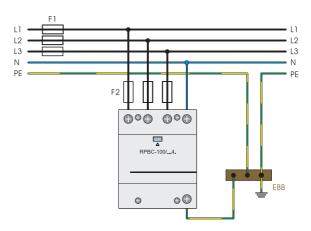




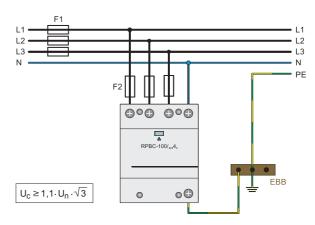
TT (1+1) single-phase network



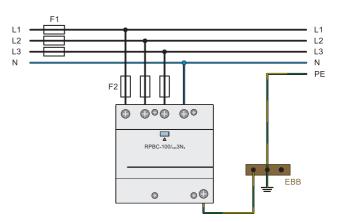
TNC (3+0) three-phase network



TNS (4+0) three-phase network



IT three-phase network - parallel wiring



TT (3+1) three-phase network

