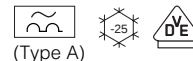


BETA Protecting

Residual Current Protective Devices



RC units, type A

Technical specifications

		5SM2
Standards		IEC/EN 61009-1 (VDE 0664-20), IEC/EN 61009-2-1 (VDE 0664-21) IEC/EN 61543 (VDE 0664-30) EN 61009-1, EN 61009-2-1; IEC 61009-1, IEC 61009-2-1
Approved acc. to		
Surge current withstand capability		
With current waveform 8/20 μ s	acc. to EN 60060-2	
• Instantaneous	kA	> 1
• Super resistant	kA	> 3
• Selective	kA	> 5
Minimum operational voltage for test function operation		
• Up to $I_n = 63$ A, 2 and 3-pole	V AC	195
• Up to $I_n = 63$ A, 4-pole	V AC	100
• At $I_n = 80 \dots 100$ A	V AC	100
Rated voltage U_n	V AC	230 ... 400
Rated frequency f_n	Hz	50 ... 60
Rated currents I_n	A	0.3 ... 16; 0.3 ... 40; 0.3 ... 63; 80 ... 100
Rated residual currents $I_{\Delta n}$	mA	10, 30, 100, 300, 500, 1000
Terminal conductor cross-sections		
• Up to $I_n = 63$ A	mm ²	1.5 ... 25
• At $I_n = 80 \dots 100$ A	mm ²	6.0 ... 50
Terminal tightening torque	Nm	2.5 ... 3.0
Mains connection		Either top or bottom
Mounting position		Any
Degree of protection	acc. to EN 60529 (VDE 0470-1)	IP20, with connected conductors
Touch protection	acc. to EN 50274 (VDE 0660-514)	Finger and back-of-hand safe
Service life	Test cycle acc. to EN 61009	> 10000 switching cycles
Storage temperature	°C	-40 ... +75
Ambient temperature	°C	-25 ... +45,  Marked with 
Resistance to climate	acc. to IEC 60068-2-30	28 cycles (55 °C; 95 % rel. humidity)
CFC and silicone-free		Yes