



## **CONTROL RELAY RM22TG20**

URL:https://www.sxplc.com/control-relay-rm22tg20

## **Product data sheet**

Main Information
Product Family Harmony Control Relays
Relay Type Control Relay
Product type 3-phase control relay
Number of phases in the grid 3-phase
Relay Name RM22TG
Relay Monitoring Parameters Phase Sequence
Phase failure detection (2 or more phase cut)
Time delay type None

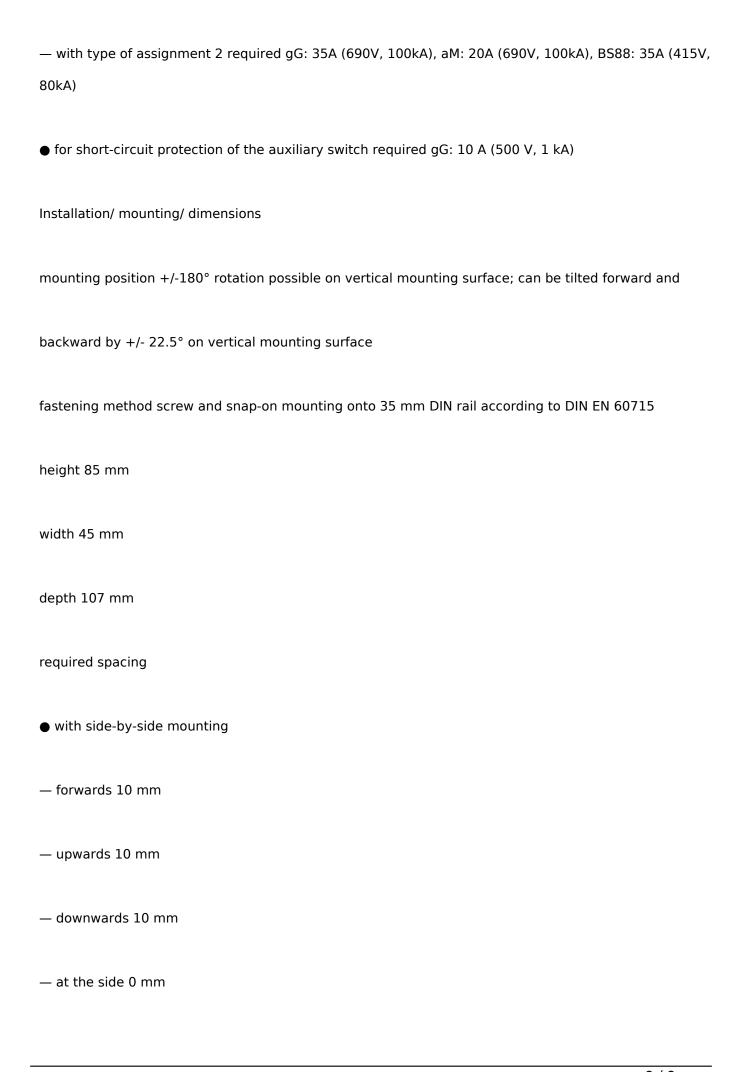
Switching capacity in VA 2000 VA
Measuring range 208480 V Voltage AC
Contact type 2 OC
Additional information
Reset time 1500 ms at max. voltage
Max. switching voltage 250 V AC
Min. switching current [Imin] 10 mA at on 5 V DC
Max. switching current 8 A AC
Nominal supply voltage [Us] AC/DC
Supply voltage range 183528 V AC
Operating limits 183528 V AC
Power consumption VA 15 VA at on 480 V AC 60 Hz
Voltage monitoring threshold < 100 V AC
Supply voltage frequency 5060 Hz +/- 10 %
Output contacts 2 C/O

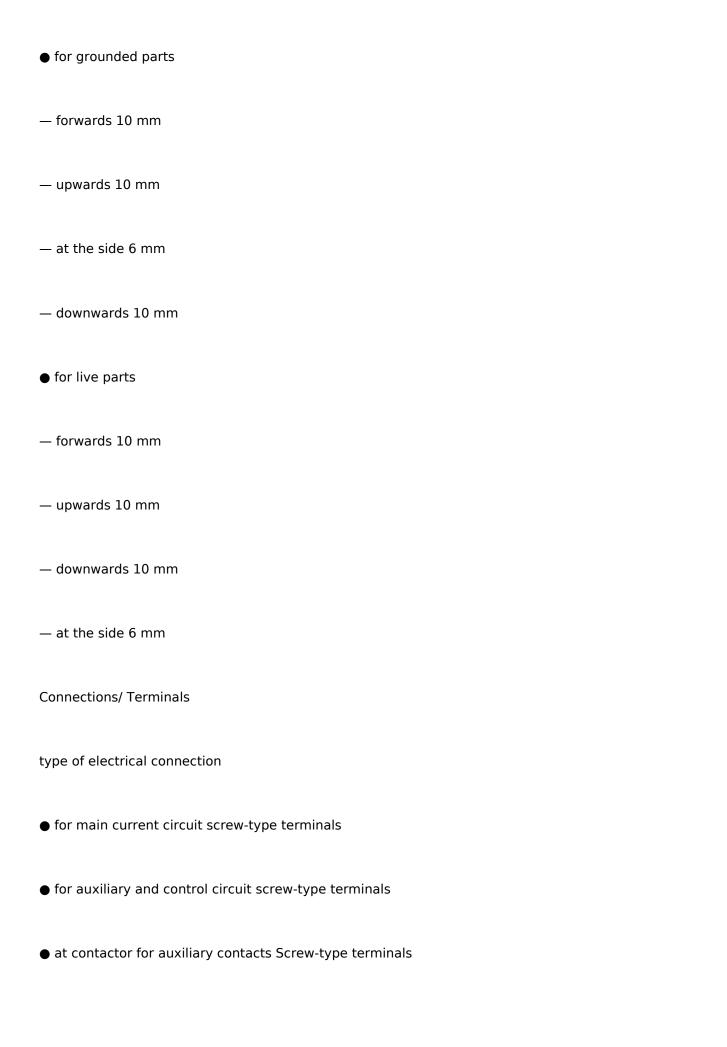
Rise delay at energization 650 ms Response time <= 200 ms Overvoltage category III according to IEC 60664-1 III according to UL 508 Insulation resistance  $> 100 \text{ M}\Omega$  500 V DC on ... in accordance with IEC 60255-27 Mounting position Any position Wiring capacity Screw terminals, 2 x 0.5.... .2 x 2.5 mm<sup>2</sup> (AWG 20....AWG 14) Hardwire not available .AWG 14) Hardwire without terminals Screw terminals, 2 x 0.2..... 2 x 1.5 mm<sup>2</sup> (AWG 24... .AWG 16) Flexible cable .AWG 16) Flexible cable with terminals Screw terminals, 1 x 0.5.... .1 x 3.3 mm<sup>2</sup> (AWG 20....AWG 12) .AWG 12) Hardwire without terminals Screw terminals, 1 x 0.2.... .1 x 2.5 mm² (AWG 24.... ...AWG 14) Soft cord with terminal block Tightening torque 0.6...1 N.m according to IEC 60947-1 Cover material Flame-retardant plastic LED status LED (yellow) Relay ON LED (green) energized

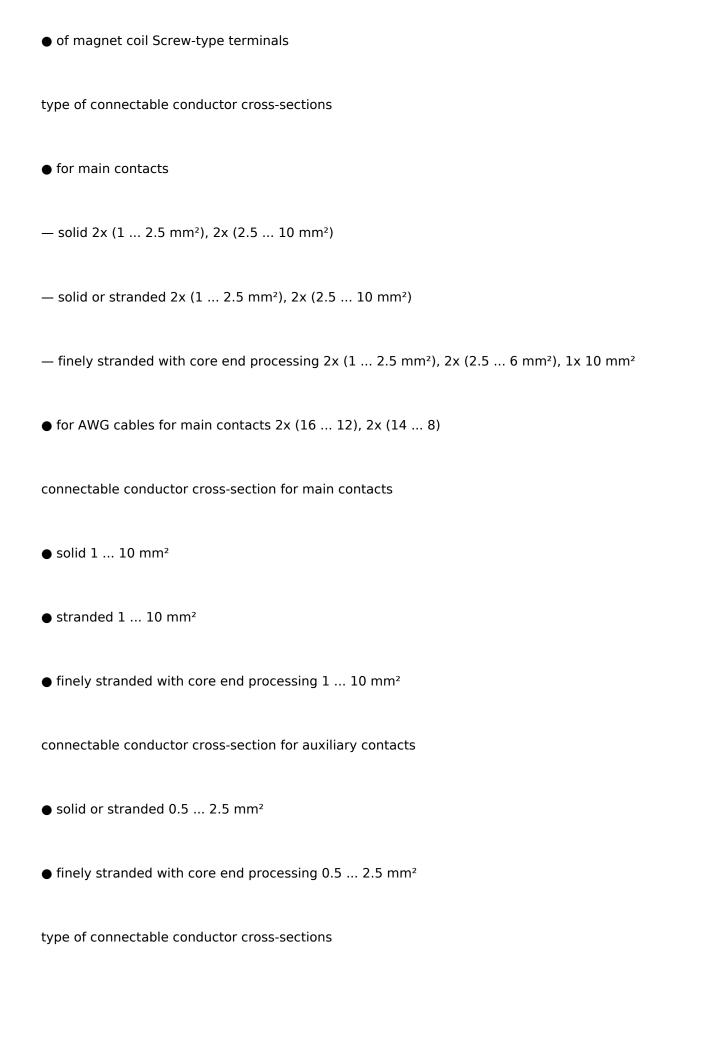
Mounting type 35 mm DIN rail in accordance with IEC 60715
Electrical life 100000 cycles
Mechanical life 10000000 cycles
Category of use AC-15 to IEC 60947-5-1
DC-13 Conforms to IEC 60947-5-1
AC-1 Conforms to IEC 60947-4-1
DC-1 Conforms to IEC 60947-4-1
[Un] rated nominal voltage , self-powered power supply  Safety and reliability data MTTFd = 924.6 years
B10d = 850000
Contact material Cadmium-free
UL/CSA ratings
full-load current (FLA) for 3-phase AC motor
• at 480 V rated value 21 A
• at 600 V rated value 22 A

● for single-phase AC motor
— at 110/120 V rated value 2 hp
— at 230 V rated value 3 hp
• for 3-phase AC motor
— at 200/208 V rated value 5 hp
— at 220/230 V rated value 7.5 hp
— at 460/480 V rated value 15 hp
— at 575/600 V rated value 20 hp
contact rating of auxiliary contacts according to UL A600 / P600
Short-circuit protection
design of the fuse link
• for short-circuit protection of the main circuit
<ul> <li>— with type of coordination 1 required gG: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), BS88: 100</li> <li>A (415 V, 80</li> </ul>
kA)

yielded mechanical performance [hp]







- for auxiliary contacts
- solid or stranded 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)
- finely stranded with core end processing 2x (0.5 ... 1.5 mm<sup>2</sup>), 2x (0.75 ... 2.5 mm<sup>2</sup>)
- for AWG cables for auxiliary contacts 2x (20 ... 16), 2x (18 ... 14)

AWG number as coded connectable conductor cross

section

- for main contacts 16 ... 8
- for auxiliary contacts 20 ... 14

