Specifications





# three-Phase control relay 183... 528Vac, 2 C/O

RM22TG20

### Main

Range of product	Harmony Control Relays
Relay type	Control relay
Product or component type	3-phase control relay
Network number of phases	3 phases
Relay name	RM22TG
Relay monitored parameters	Phase sequence Phase failure detection (2 or more phase cut)
Time delay type	Without
Switching capacity in VA	2000 VA
Measurement range	208480 V voltage AC
Contacts type and composition	2 C/O

# Complementary

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Reset time	1500 ms at maximum voltage
Maximum switching voltage	250 V AC
Minimum switching current	10 mA at 5 V DC
Maximum switching current	8 A AC
[Us] rated supply voltage	AC/DC
Supply voltage limits	183528 V AC
operating limits	183528 V AC
Power consumption in VA	15 VA at 480 V AC 60 Hz
Voltage detection threshold	< 100 V AC
supply voltage frequency	5060 Hz +/- 10 %
Output contacts	2 C/O
Run-up delay at power-up	650 ms
Response time	<= 200 ms
Overvoltage category	III conforming to IEC 60664-1 III conforming to UL 508
Insulation resistance	> 100 MOhm at 500 V DC conforming to IEC 60255-27
Mounting position	Any position
Connections - terminals	Screw terminals, 2 x 0.52 x 2.5 mm <sup>2</sup> (AWG 20AWG 14) solid without cable end Screw terminals, 2 x 0.22 x 1.5 mm <sup>2</sup> (AWG 24AWG 16) flexible with cable end Screw terminals, 1 x 0.51 x 3.3 mm <sup>2</sup> (AWG 20AWG 12) solid without cable end Screw terminals, 1 x 0.21 x 2.5 mm <sup>2</sup> (AWG 24AWG 14) flexible with cable end

Tightening torque	0.61 N.m conforming to IEC 60947-1
Housing material	Self-extinguishing plastic
Status LED	LED (yellow) relay ON LED (green) power ON
Mounting support	35 mm DIN rail conforming to IEC 60715
Electrical durability	100000 cycles
Mechanical durability	1000000 cycles
Utilisation category	AC-15 conforming to IEC 60947-5-1 DC-13 conforming to IEC 60947-5-1 AC-1 conforming to IEC 60947-4-1 DC-1 conforming to IEC 60947-4-1
[Un] rated nominal voltage	, self-powered
Safety reliability data	MTTFd = 924.6 years B10d = 850000
Contacts material	Cadmium free
Control type	With test button
Width	22.5 mm
Net weight	0.09 kg

## Environment

ronments conforming to )0-6-2 strial environments IEC 61000-6-4 harge) conforming to IEC
strial environments IEC 61000-6-4
IEC 61000-6-4
harge) conforming to IEC
harge) conforming to IEC
e) conforming to IEC
t - test level: 10 V/m level
evel 4 (direct)
evel 4 (capacitive
) conforming to IEC
le) conforming to IEC
ng to CISPR 11 SPR 22

Vibration resistance	0.075 mm (f= 1058.1 Hz) not in operation conforming to IEC 60068-2-6 1 gn (f= 1058.1 Hz) not in operation conforming to IEC 60068-2-6
	0.035 mm (f= 58.1150 Hz) in operation conforming to IEC 60068-2-6 0.5 gn (f= 58.1150 Hz) in operation conforming to IEC 60068-2-6
Shock resistance	15 gn (duration = 11 ms) for not in operation conforming to IEC 60068-2-27 5 gn (duration = 11 ms) for in operation conforming to IEC 60068-2-27
IP degree of protection	IP20 (terminals) conforming to IEC 60529 IP40 (housing) conforming to IEC 60529 IP50 (front panel) conforming to IEC 60529
Pollution degree	3 conforming to IEC 60664-1 3 conforming to UL 508
Dielectric test voltage	2.5 kV, 1 min AC 50 Hz conforming to IEC 60255-27

# Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.500 cm
Package 1 Width	8.200 cm
Package 1 Length	9.500 cm
Package 1 Weight	102.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	40
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	4.650 kg
Unit Type of Package 3	P06
Number of Units in Package 3	640
Package 3 Height	75.000 cm
Package 3 Width	60.000 cm
Package 3 Length	80.000 cm
Package 3 Weight	86.180 kg

### **Contractual warranty**

Warranty

18 months

## Sustainability Screen Premium

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Yes

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

### Well-being performance



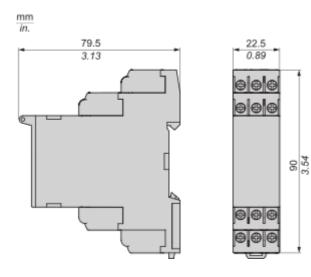
Rohs Exemption Information

### **Certifications & Standards**

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information

#### **Dimensions Drawings**

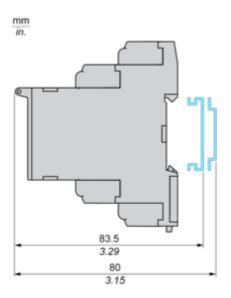
#### Dimensions



Mounting and Clearance

#### Mounting and Clearance

#### **Rail Mounting**



#### Connections and Schema

#### 3-Phase Control Relay

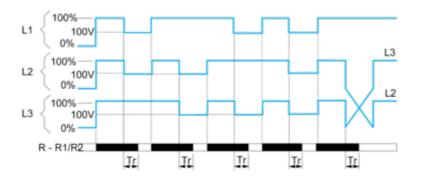
Wiring Diagram



L1,L2,L3 : Supply to be monitored 11-14,12 : 1st C/O contact of output relay 21-24,22 : 2nd C/O contact of output relay **Technical Description** 

#### **Function Diagram**

#### Phase Sequence Control and Total Loss of Phase Detection



#### Legend

Tr Response time on appearance of a fault

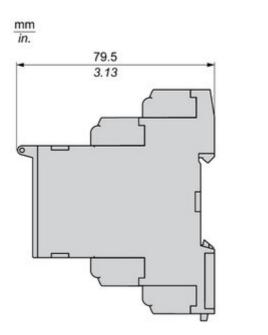
L1, L2, L3 Phases of the supply voltage monitored

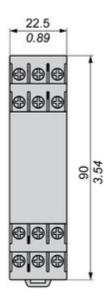
R - R1/R2 Output relay(s),

Relay status: black color = energized.

#### **Technical Illustration**

#### Dimensions





#### Offer Marketing Illustration

#### **Product benefits / Features**



Offer Marketing Illustration

#### **Product benefits / Features**



Image of product / Alternate images

#### Alternative









