Product data sheet

Specifications



Harmony 3 phase voltage monitoring relay, Range 208 to 480 VAC, phase sequence, phase failure, 1 CO

RM10TG00N

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	Harmony Control Relays
Relay Type	Control relay
Product or Component Type	3-phase control relay
Relay monitored parameters	Phase sequence Phase failure detection
Product Specific Application	For 3-phase supply
Relay name	RM10TG

Complementary

Supply voltage limits	183…528 V AC, 3 phase
Supply frequency	47...63 Hz
Power consumption in VA	0…4.5 VA
Measurement range	208...480 V AC
Voltage detection threshold	< 138 V AC
Time delay type	Without
Reset time	1.5 s time delay
Response time	< 200 ms (in the event of a fault)
Output contacts	1 C/O
nominal output current	5 A
Switching capacity in VA	1250 VA
Electrical durability	100000 cycles
Mechanical durability	10000000 cycles

Environment

Electromagnetic compatibility	conforming to IEC 61000-6-4 conforming to IEC 61000-6-3 conforming to IEC 61000-6-2
Standards	IEC 60255-1
Product Certifications	cULus CE UKCA CCC

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Marking	CULus CE UKCA CCC
Directives	89/336/EEC - electromagnetic compatibility 73/23/EEC - low voltage directive
Ambient Air Temperature for Storage	-4…176 °F (-20…80 °C)
Ambient air temperature for operation	5…140 °F (-15…60 °C)
Relative humidity	10…95 %
IP degree of protection	IP20 terminals) IP40 casing)
Pollution degree	2
Overvoltage category	II
Dielectric test voltage	1.89 kV AC 50 Hz, 1 min
Insulation resistance	> 100 MOhm 500 V DC
[Ui] rated insulation voltage	400 V
Connections - terminals	Screw terminals, 2 x 0.5...2 x 1.5 mm² 20 AWG...16 AWG) solid with or without cable end
Tightening torque	4.4…6.2 lbf.in (0.5…0.7 N.m)
Housing material	Polycarbonate
Local signalling	LED (green) for ST (status)
Mounting support	35 mm symmetrical DIN rail conforming to IEC 60715
Reliability data	MTTFd = 158 years
Height	3.5 in (90 mm)
Width	0.7 in (17.5 mm)
Depth	2.3 in (58.5 mm)
Net Weight	0.165 lb(US) (0.075 kg)

Ordering and shipping details

Category	US10CP222370
Discount Schedule	0CP2
GTIN	3606487344674
Returnability	Yes
Country of origin	IN

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	0.984 in (2.500 cm)
Package 1 Width	2.756 in (7.000 cm)
Package 1 Length	4.331 in (11.000 cm)
Package weight(Lbs)	2.998 oz (85.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	48

Package 2 Height	5.906 in (15.000 cm)
Package 2 Width	11.811 in (30.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	10.296 lb(US) (4.670 kg)

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint

Total lifecycle Carbon footprint	**81 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**0 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**0 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**0 kg CO2 eq.**
Environmental Disclosure	**Product Environmental Profile**

Use Better

Materials and Substances

EU RoHS Directive	**Compliant By Exemption**
REACh Regulation	**Reference contains Substances of Very High Concern above the threshold**
California proposition 65	**WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov**

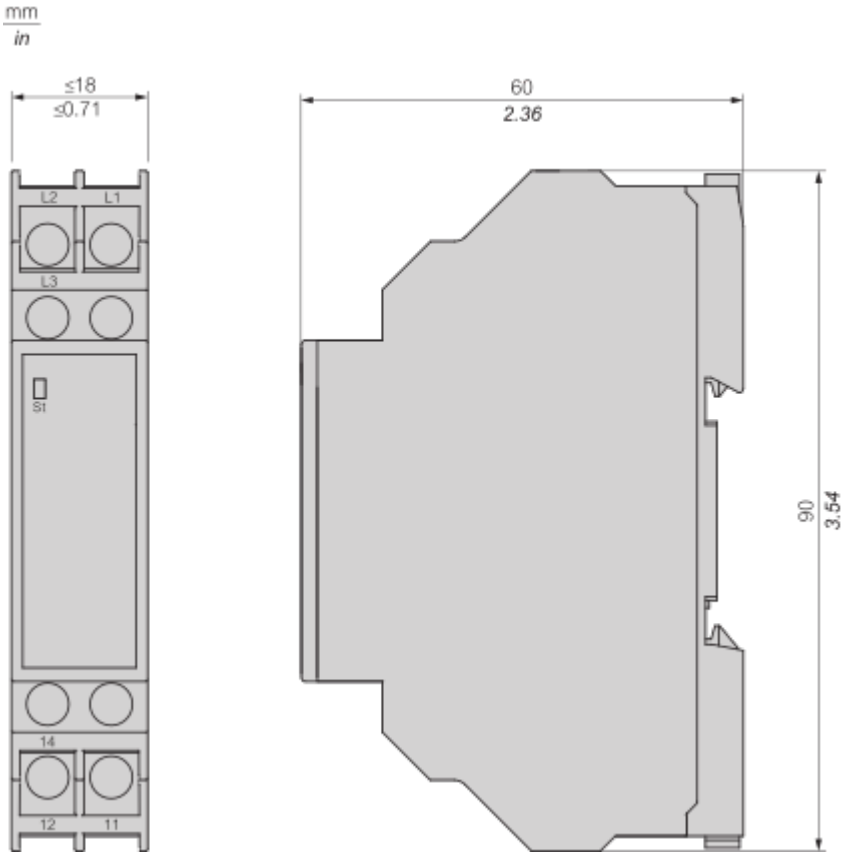
Use Again

Repack and remanufacture

Recyclability potential, in %	**70**
Circularity Profile	**End of Life Information**
Take-back	**No**
WEEE Label	**The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.**

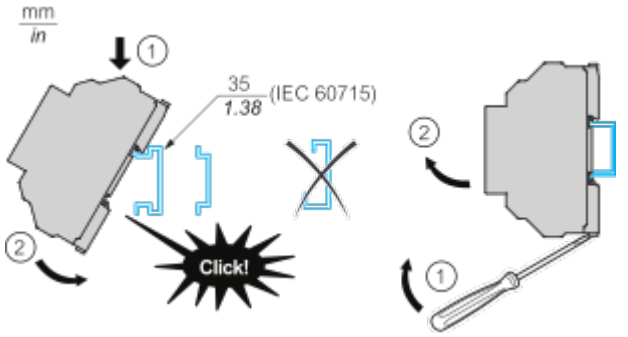
Dimensions Drawings

Dimension



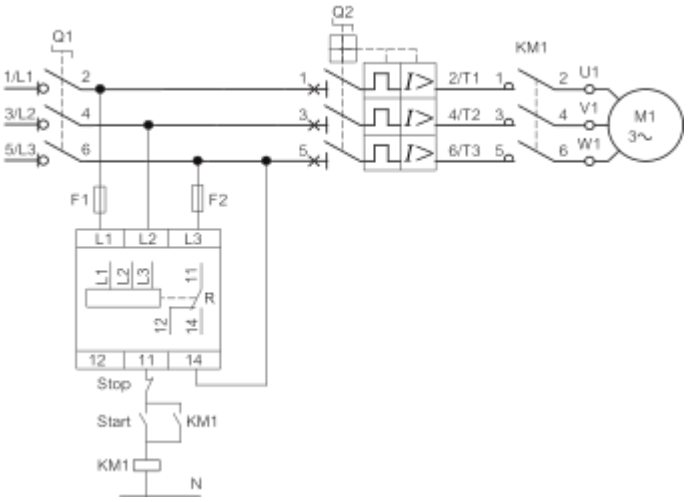
Mounting and Clearance

Mounting

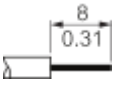


Connections and Schema

Wiring



NOTE:

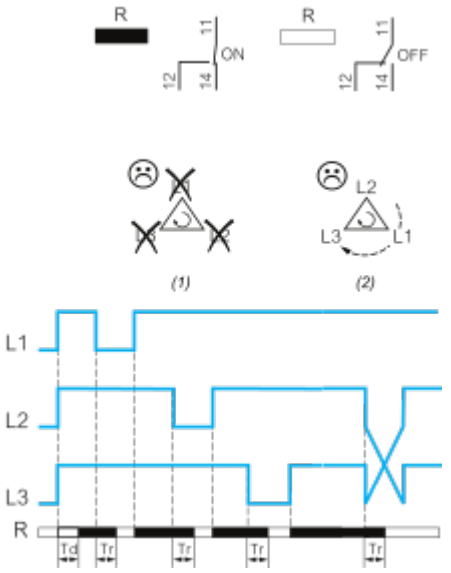
- Use copper conductors only
- TORQUE : 0.5…0.7 N.m (4.4…6.2 lbf.in)
- 

2x (0.5...1.5mm² / 20...16AWG)

Technical Description

Function Diagram

Phase Loss & Phase Sequence



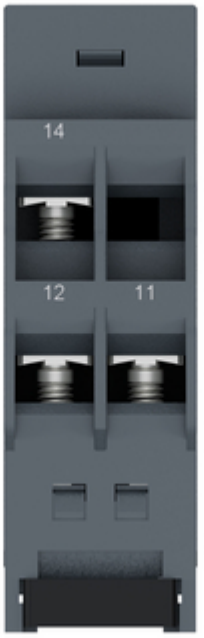
Td : Delay at power up
Tr : Response time
R : Relay
(1) : Phase Loss
(2) : Phase Sequence Fault

LED	Status		
	Normal	**Phase Seq. Fault**	**Phase Loss**
St	ON	BLINKING	OFF
R	■	□	□

Image of product / Alternate images

Alternative

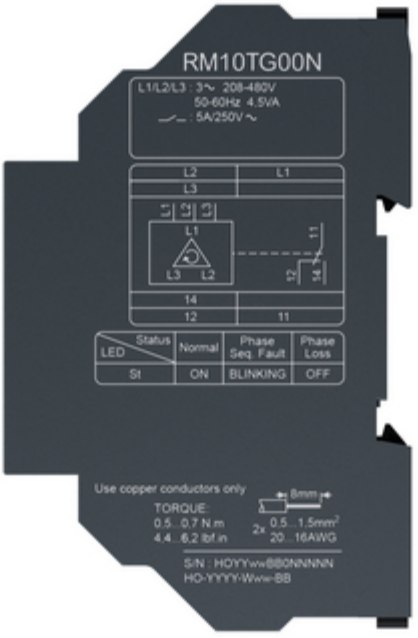





L2
L1
L3
RM10TG00N
St
Schneider Electric
14
12
11






RM10TG00N
L1/L2/L3 : 3~ 208-480V
50-60Hz 4.5VA
: 5A/250V ~
L2
L1
L3
L1
L3
L2
11
12
14
12
11
LED
Status
Normal
Phase Seq. Fault
Phase Loss
St
ON
BLINKING
OFF
Use copper conductors only
TORQUE:
0.5...0.7 N.m
4.4...6.2 lbf.in
8mm
2x 0.5...1.5mm²
20...16AWG
S/N : HOYYww8B0NNNNN
HO-YYYY-Www-BB