Product data sheet
Characteristics

RM4TU01
three-phase network control relay RM4-T - range 160..220 V



Commercial status
End of Commercialisation : MAR 31, 2022

⚠ End of Commercialisation

Main

Range of product	Harmony Relay
Relay type	Control relay
Product or component type	Industrial measurement and control relays
Relay name	RM4-T
Relay monitored parameters	Phase sequence Phase failure detection Undervoltage detection
Contacts type and composition	2 C/O
Poles description	3P
Product specific application	For 3-phase supply

Complementary

Supply frequency	50/60 Hz +/- 5 %
Maximum measuring cycle	80 Ms
Hysteresis	5 % fixed of de-energisation threshold
Setting accuracy of the switching threshold	+/-3 %
Switching threshold drift	<= 0.06 % per degree centigrade depending permissible ambient air temperature <= 0.5 % within the measuring range
Time delay type	Without
Setting accuracy of time delay	10 P
Output contacts	2 C/O
Maximum switching voltage	440 V AC
Mechanical durability	30000000 Cycles
Control threshold undervoltage	160…220 V
[Ie] rated operational current	2 A at 70 °C 24 V DC-13 conforming to IEC 60947-5-1/1991 2 A at 70 °C 24 V DC-13 conforming to VDE 0660 3 A at 70 °C 115 V AC-15 conforming to IEC 60947-5-1/1991 3 A at 70 °C 115 V AC-15 conforming to VDE 0660 3 A at 70 °C 24 V AC-15 conforming to IEC 60947-5-1/1991 3 A at 70 °C 24 V AC-15 conforming to VDE 0660 3 A at 70 °C 250 V AC-15 conforming to IEC 60947-5-1/1991 3 A at 70 °C 250 V AC-15 conforming to VDE 0660 0.1 A at 70 °C 250 V DC-13 conforming to IEC 60947-5-1/1991 0.1 A at 70 °C 250 V DC-13 conforming to VDE 0660 0.3 A at 70 °C 115 V DC-13 conforming to IEC 60947-5-1/1991 0.3 A at 70 °C 115 V DC-13 conforming to VDE 0660
Time delay drift	<= 0.07 % per degree centigrade depending on the rated operational temperature <= 0.5 % within the measuring range
[Ith] conventional free air thermal current	8 A
Switching capacity in mA	10 mA at 12 V

Switching voltage	250 V AC
Contacts material	90/10 silver nickel contacts
Number of cables	2
Terminals description ISO n°1	ALT (L1-L2-L3)CO (25-26-28)OC (15-16-18)OC
Output relay state	Tripped, fault present
9 mm pitches	2.5
Terminals description ISO n°2	(21-22-24)OC (11-12-14)OC (L1-L2-L3)CO ALT

Environment

Electromagnetic compatibility	Electrostatic discharge - test level: 6 kV level 3 (contact discharge) conforming to IEC 61000-4-2 Electrostatic discharge - test level: 8 kV level 3 (air discharge) conforming to IEC 61000-4-2 Resistance to electrostatic discharge - test level: 6 kV (contact) conforming to IEC 61000-4-2 leve Resistance to electrostatic discharge - test level: 8 kV (air) conforming to IEC 61000-4-2 level 3
Standards	IEC 60255-6
Product certifications	GL[RETURN]UL[RETURN]CSA
Marking	CE
Directives	73/23/EEC - low voltage directive 89/336/EEC - electromagnetic compatibility
Ambient air temperature for storage	-40…85 °C
Ambient air temperature for operation	-20…65 °C
Relative humidity	15…85 % 3K3 conforming to IEC 60721-3-3
IP degree of protection	IP20 (terminals) conforming to IEC 60529 IP50 (casing) conforming to IEC 60529
Pollution degree	3 conforming to IEC 60664-1
Overvoltage category	III conforming to IEC 60664-1
Dielectric test voltage	2.5 KV
[Ui] rated insulation voltage	500 V conforming to IEC
Operating position	Any position without derating
Connections - terminals	Screw terminals, 2 x 1.5 mm²flexible with cable end Screw terminals, 2 x 2.5 mm²flexible without cable end
Tightening torque	0.6…1.1 N.M
Width	22.5 Mm
Height	78 Mm
Depth	80 Mm
Net weight	0.11 Kg
Non-dissipating shock wave	4.8 KV
Resistance to electrostatic discharge	6 KV contact conforming to IEC 61000-4-2 level 3 8 KV air conforming to IEC 61000-4-2 level 3
Resistance to electromagnetic fields	10 V/M conforming to IEC 61000-4-3 level 3
Resistance to fast transients	2 KV conforming to IEC 61000-4-4 level 3
Disturbance radiated/conducted	CISPR 11 group 1 - class A CISPR 22 - class A

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.7 Cm
Package 1 Width	8.2 Cm
Package 1 Length	8.5 Cm
Package 1 Weight	132 G

Offer Sustainability

Sustainable packaging	No

Contractual warranty

Warranty (in months)	18

Product Life Status : End of commerc. - Block

RM4TU01 may be replaced by any of the following products:



RM22TU21

3-phase control relay, Harmony Control Relays, 8A, 2CO, undervoltage detection, 200...240V AC

Qty 1

Substitution date: |