Product data sheet
Characteristics

RM17TU00
3 phase control relay, Harmony Control Relays, 5A, 1CO, undervoltage detection, 208...480V AC



Main

Range of product	Harmony Control Relays
Relay type	Multifunction control relay
Product or component type	3-phase control relay
Relay name	RM17TU
Relay monitored parameters	Undervoltage detection Phase sequence Phase failure detection
Control type	Without test button
Contacts type and composition	1 C/O
[Uc] control circuit voltage	208...480 V
Product specific application	For 3-phase supply

Complementary

[Us] rated supply voltage	, self-powered
Supply voltage limits	183…528 V AC
Supply frequency	50/60 Hz +/- 10 %
Power consumption in VA	0…22 VA at 400 V AC 50 Hz
Measurement range	208...480 V AC
Measurement voltage limits	183…528 V AC
Maximum measuring cycle	150 Ms measurement cycle as true rms value
Threshold adjustment voltage	2...20 % of Un selected -2...-12 % in the range 208 V AC -2...-17 % in the range 220 V AC
Hysteresis	2 %
Measurement error	< 0.05 %/°C with temperature variation < 1 % over the whole range with voltage variation
Time delay type	Adjustable 0.1...10 s, +/- 10 % of the full scale value Tt- time delay upon fault
Reset time	1500 Ms time delay
Response time	< 200 ms (in the event of a fault)
Output contacts	1 C/O
Nominal output current	5 A
Maximum switching voltage	250 V AC
Switching capacity in VA	1250 VA
Minimum switching current	10 MA at 5 V DC
Maximum switching current	5 A AC 5 A DC
Electrical durability	100000 Cycles

Mechanical durability	30000000 Cycles
Control circuit voltage limits	- 12 % + 10 % Un
Control circuit frequency	50...60 Hz +/- 10 %
Phase failure sensitivity	0.7 Un

Environment

Electromagnetic compatibility	Emission standard for industrial environments conforming to IEC 61000-6-4 Emission standard for residential, commercial and light-industrial environments conforming to IEC Immunity for industrial environments conforming to IEC 61000-6-2
Standards	IEC 60255-1
Product certifications	GL[RETURN]GOST[RETURN]UL[RETURN]C-Tick[RETURN]CSA
Marking	CE
Directives	73/23/EEC - low voltage directive 89/336/EEC - electromagnetic compatibility
Ambient air temperature for storage	-40…70 °C -40…70 °C
Ambient air temperature for operation	-20…50 °C
Relative humidity	95 % at 55 °C conforming to IEC 60068-2-30
IP degree of protection	IP20 (terminals) conforming to IEC 60529 IP30 (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 KV, 1 min AC 50 Hz conforming to IEC 60255-5
Insulation resistance	> 500 MOhm at 500 V DC conforming to IEC 60255-5
[Ui] rated insulation voltage	400 V conforming to IEC 60664-1
Operating position	Any position without derating
Connections - terminals	Screw terminals, 1 x 0.5...1 x 4 mm² (20 AWG...11 AWG) solid without cable end Screw terminals, 2 x 0.5...2 x 2.5 mm² (20 AWG...14 AWG) solid without cable end Screw terminals, 1 x 0.2...1 x 2.5 mm² (24 AWG...12 AWG) flexible with cable end Screw terminals, 2 x 0.2...2 x 1.5 mm² (24 AWG...16 AWG) flexible with cable end
Tightening torque	0.6…1 N.M conforming to IEC 60947-1
Housing material	Polycarbonate
Local signalling	LED (green) for power ON LED (yellow) for relay ON
Mounting support	35 mm symmetrical DIN rail conforming to IEC 60715
Safety reliability data	MTTFd = 502.2 years B10d = 470000
Height	90 Mm 88.9 Mm
Width	17.5 Mm 17.8 Mm
Depth	72 Mm 71.1 Mm
Net weight	0.08 Kg 0.08 Kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.800 Cm
Package 1 Width	8.000 Cm
Package 1 Length	9.600 Cm
Package 1 Weight	86.000 G
Unit Type of Package 2	S02
Number of Units in Package 2	48
Package 2 Height	15.000 Cm
Package 2 Width	30.000 Cm
Package 2 Length	40.000 Cm
Package 2 Weight	4.708 Kg

Offer Sustainability

Recyclability potential, in %	0
Total lifecycle Carbon footprint	99 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	2.9579268838546358
Carbon footprint of the manufacturing phase [A1 to A3]	3 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.3854885085872304
Carbon footprint of the distribution phase [A4]	0.4 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.0005841575735513169
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	95.41983755211216
Carbon footprint of the use phase [B2, B3, B4, B6]	95 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.3524507606340501
Carbon footprint of the end-of-life phase [C1 to C4]	0.4 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	99
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	Ba9cbb5b-722a-41d2-b7d0-f60d5f3f104d
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, w
End of life manual availability	End Of Life Information
Take-back	No

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised