Product data sheet

Specifications





Harmony, Modular multifunction 3phase supply control relay, 5 A, 1 CO, 208...480 V AC

RM17TT00

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Range of product	Harmony Control Relays
Product or component type	3-phase control relay
Relay type	Multifunction control relay
Product specific application	For 3-phase supply
Relay name	RM17TT
Relay monitored parameters	Phase failure detection Phase sequence
Time delay	Without
Switching capacity in VA	1250 VA
Measurement range	208480 V voltage AC
Contacts type and composition	1 C/O
[Uc] control circuit voltage	208480 V

Complementary

Complementary	
Reset time	1500 ms time delay
Maximum switching voltage	250 V AC 250 V DC
Minimum switching current	10 mA at 5 V DC
Maximum switching current	5 A AC 5 A DC
Supply voltage limits	183528 V AC
Control circuit voltage limits	- 12 % + 10 % Un
Power consumption in VA	022 VA at 400 V AC 50 Hz
Control circuit frequency	5060 Hz +/- 10 %
Output contacts	1 G/O
Nominal output current	5 A
Measurement voltage limits	183528 V AC
Hysteresis	2 %
Delay at power up	650 ms
Maximum measuring cycle	150 ms measurement cycle as true rms value
Threshold adjustment voltage	-217 % in the range 220 V AC

	220 % of Un selected +2+17 % in the range 480 V AC -212 % in the range 208 V AC	
Voltage range	208480 V phase to phase	
Adjustment of asymmetry threshold	515 % of Un selected	
Repeat accuracy	0.5 % for input and measurement circuit 3 % for time delay	
Measurement error	< 0.05 %/°C with temperature variation < 1 % over the whole range with voltage variation	
Phase failure sensitivity	0.7 Un \	
Response time	< 200 ms (in the event of a fault)	
Marking	CE	
Overvoltage category	III conforming to IEC 60664-1	
Insulation resistance	> 500 MOhm at 500 V DC conforming to IEC 60255-5 > 500 MOhm at 500 V DC conforming to IEC 60664-1	
[Ui] rated insulation voltage	400 V conforming to IEC 60664-1	
Supply frequency	50/60 Hz +/- 10 %	
Operating position	Any position without derating	
Connections - terminals	Screw terminals, 1 x 0.51 x 4 mm² (AWG 20AWG 11) solid without cable end Screw terminals, 2 x 0.52 x 2.5 mm² (AWG 20AWG 14) solid without cable end Screw terminals, 1 x 0.21 x 2.5 mm² (AWG 24AWG 12) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end	
Tightening torque	0.61 N.m conforming to IEC 60947-1	
Housing material	Self-extinguishing plastic	
Local signalling	LED (green) for power ON LED (yellow) for relay ON	
Mounting support	35 mm symmetrical DIN rail conforming to EN/IEC 60715	
Electrical durability	100000 cycles	
Mechanical durability	30000000 cycles	
Operating rate	<= 360 operations/hour full load	
Utilisation category	AC-12 conforming to IEC 60947-5-1 AC-13 conforming to IEC 60947-5-1 AC-14 conforming to IEC 60947-5-1 AC-15 conforming to IEC 60947-5-1 DC-12 conforming to IEC 60947-5-1 DC-13 conforming to IEC 60947-5-1	
Safety reliability data	MTTFd = 502.2 years B10d = 470000	
Width	17.5 mm	
Net weight	0.13 kg	
Environment		
Electromagnetic compatibility	Emission standard for industrial environments conforming to EN/IEC 61000-6-4 Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-3 Immunity for industrial environments conforming to EN/IEC 61000-6-2	
Standards	EN/IEC 60255-1	
Product certifications	UL GL C-Tick GOST CSA	
Directives	73/23/EEC - low voltage directive 89/336/EEC - electromagnetic compatibility	
Ambient air temperature for storage	-4070 °C	

Ambient air temperature for operation	-2050 °C
Relative humidity	95 % at 55 °C conforming to IEC 60068-2-30
Vibration resistance	0.35 mm (f= 557.6 Hz) conforming to IEC 60068-2-6 1 gn (f= 57.6150 Hz) conforming to IEC 60255-21-1
Shock resistance	15 gn for 11 ms conforming to IEC 60255-21-1
IP degree of protection	IP20 (terminals) conforming to IEC 60529 IP30 (casing) conforming to IEC 60529
Pollution degree	3 conforming to IEC 60664-1
Dielectric test voltage	2 kV, 1 min AC 50 Hz conforming to IEC 60255-5 2 kV, 1 min AC 50 Hz conforming to IEC 60664-7
Non-dissipating shock wave	4 kV conforming to IEC 60255-5 4 kV conforming to IEC 60664-1 4 kV conforming to IEC 61000-4-5

Packing Units

Unit Type of Package 1 PCE	
<i>3</i> .	
Number of Units in Package 1 1	
Package 1 Weight 90.0 g	
Package 1 Height 2.8 cm	
Package 1 width 7.8 cm	
Package 1 Length 9.6 cm	
Unit Type of Package 2 S02	
Number of Units in Package 2 48	
Package 2 Weight 4.958 kg	
Package 2 Height 15 cm	
Package 2 width 30 cm	
Package 2 Length 40 cm	

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
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

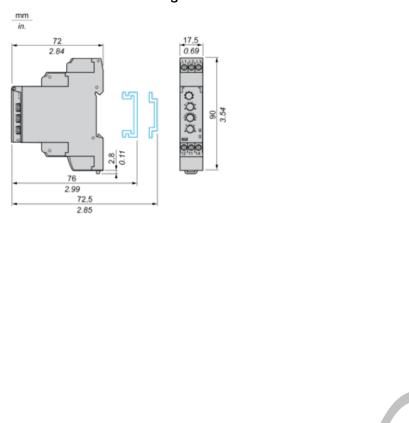
Contractual warranty

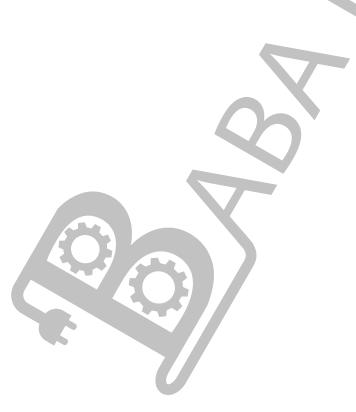
Warranty 18 months	
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Dimensions Drawings

Multifunction 3-Phase Supply Control Relays

Dimensions and Mounting





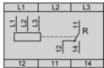
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Connections and Schema

Multifunction 3-Phase Supply Control Relays

Wiring Diagram

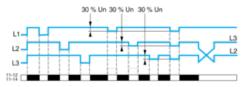




Technical Description

Function Diagram

Phase Sequence Control and Partial Phase Failure Detection



Legend

Un Nominal 3-phase supply voltage

11-12, 11-14 Output relay connections

Relay status: black color = energized.

