Product data sheet Characteristics

RM17TG00

phase control relay RM17-T - range 183..528 V AC



Main

Commercial Status	Commercialised
Range of product	Zelio Control
Product or component type	Modular measurement and control relays
Relay type	Control relay
Product specific application	For 3-phase supply
Relay name	RM17TG
Relay monitored parameters	Phase failure detection Phase sequence
Switching capacity in VA	1250 VA

Complementary

Minimum switching current 10 mA at 5 V DC Ius rated supply voltage 208480 V AC 3 phases	Maximum switching voltage	250 V DC 250 V AC
Supply voltage limits 183528 V AC Control circuit voltage limits - 12 %, + 10 % Un Power consumption in VA <= 22 VA 400 V AC 50 Hz	Minimum switching current	10 mA at 5 V DC
Control circuit voltage limits -12 %, +10 % Un Power consumption in VA <= 22 VA 400 V AC 50 Hz	[Us] rated supply voltage	208480 V AC 3 phases
Power consumption in VA	Supply voltage limits	183528 V AC
Voltage detection threshold < 100 V for phase failure AC Control circuit frequency 5060 Hz +/- 10 % Output contacts 1 C/O Nominal output current 5 A Delay at power up <= 650 ms Voltage range 183528 V Response time <= 130 ms in the event of a fault Marking CE : 73/23/EEC CE : EMC 89/336/EEC Overvoltage category Ill conforming to IEC 60664-1 Insulation resistance > 500 MOhm at 500 V DC conforming to IEC 60664-1 Supply frequency 50/60 Hz +/- 10 % Operating position Any position without Connections - terminals Screw terminals 2 x 0.22 x 1.5 mm² - AWG 24AWG 16, flexible cable with cable end Screw terminals 1 x 0.21 x 2.5 mm² - AWG 20AWG 11, solid cable without cable end Tightening torque 0.61 N.m conforming to IEC 60947-1 Housing material Selection of the plant of the p	Control circuit voltage limits	- 12 %, + 10 % Un
Control circuit frequency 5060 Hz +/- 10 % Output contacts 1 C/O Nominal output current 5 A Delay at power up <= 650 ms	Power consumption in VA	<= 22 VA 400 V AC 50 Hz
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Nominal output current Delay at power up	Control circuit frequency	5060 Hz +/- 10 %
Delay at power up <= 650 ms Voltage range 183528 V Response time <= 130 ms in the event of a fault Marking CE: 73/23/EEC CE: EMC 89/336/EEC Overvoltage category Ill conforming to IEC 60664-1 Insulation resistance > 500 MOhm at 500 V DC conforming to IEC 60664-1 Supply frequency 50/60 Hz +/- 10 % Operating position Any position without Connections - terminals Screw terminals 2 x 0.22 x 1.5 mm² - AWG 24AWG 16, flexible cable with cable end Screw terminals 1 x 0.21 x 2.5 mm² - AWG 24AWG 14, solid cable without cable end Screw terminals 1 x 0.51 x 4 mm² - AWG 20AWG 14, solid cable without cable end Tightening torque 0.61 N.m conforming to IEC 60947-1 Housing material Self-extinguishing plastic Status LED 1 LED yellow for relay Mounting support 35 mm symmetrical DIN rail conforming to EN/IEC 60715 Electrical durability <= 30000000 cycles Mechanical durability <= 30000000 cycles	Output contacts	1 C/O
Voltage range Response time <= 130 ms in the event of a fault Marking CE: 73/23/EEC CE: EMC 89/336/EEC Overvoltage category Ill conforming to IEC 60664-1 Insulation resistance > 500 MOhm at 500 V DC conforming to IEC 60664-1 Supply frequency Description Any position without Connections - terminals Screw terminals 1 x 0.21 x 2.5 mm² - AWG 24AWG 16, flexible cable with cable end Screw terminals 1 x 0.21 x 2.5 mm² - AWG 24AWG 12, flexible cable with cable end Screw terminals 1 x 0.51 x 4 mm² - AWG 20AWG 11, solid cable without cable end Screw terminals 1 x 0.51 x 4 mm² - AWG 20AWG 11, solid cable without cable end Screw terminals 2 x 0.52 x 2.5 mm² - AWG 20AWG 11, solid cable without cable end Screw terminals 1 x 0.51 x 4 mm² - AWG 20AWG 11, solid cable without cable end Screw terminals 2 x 0.52 x 2.5 mm² - AWG 20AWG 11, solid cable without cable end Screw terminals 2 x 0.52 x 2.5 mm² - AWG 20AWG 11, solid cable without cable end Screw terminals 1 x 0.51 x 4 mm² - AWG 20AWG 11, solid cable without cable end Screw terminals 2 x 0.52 x 2.5 mm² - AWG 20AWG 11, solid cable without cable end Screw terminals 1 x 0.51 x 4 mm² - AWG 20AWG 11, solid cable without cable end Screw terminals 1 x 0.51 x 4 mm² - AWG 20AWG 11, solid cable without cable end Screw terminals 1 x 0.51 x 4 mm² - AWG 20AWG 11, solid cable without cable end Screw terminals 1 x 0.51 x 4 mm² - AWG 20AWG 11, solid cable without cable end Screw terminals 1 x 0.51 x 4 mm² - AWG 20AWG 11, solid cable without cable end Screw terminals 1 x 0.51 x 4 mm² - AWG 20AWG 11, solid cable without cable end Screw terminals 1 x 0.51 x 4 mm² - AWG 20AWG 11, solid cable without cable end Screw terminals 1 x 0.51 x 4 mm² - AWG 20AWG 11, solid cable without cable end Screw terminals 1 x 0.51 x 4 mm² - AWG 20AWG 11, solid cable without cable end Screw terminals 1 x 0.51 x 4 mm² - AWG 20AWG 11, solid cable without cable end Screw terminals 1 x 0.	Nominal output current	5 A
Response time <= 130 ms in the event of a fault Marking CE: 73/23/EEC CE: EMC 89/336/EEC Overvoltage category Ill conforming to IEC 60664-1 Insulation resistance > 500 MOhm at 500 V DC conforming to IEC 60664-1 > 500 MOhm at 500 V DC conforming to IEC 60664-1 Supply frequency 150/60 Hz +/- 10 % Operating position Any position without Connections - terminals Screw terminals 2 x 0.22 x 1.5 mm² - AWG 24AWG 16, flexible cable with cable end Screw terminals 1 x 0.21 x 2.5 mm² - AWG 24AWG 12, flexible cable with cable end Screw terminals 1 x 0.51 x 4 mm² - AWG 20AWG 14, solid cable without cable end Tightening torque 0.61 N.m conforming to IEC 60947-1 Housing material Self-extinguishing plastic Status LED 1 LED yellow for relay Mounting support 35 mm symmetrical DIN rail conforming to EN/IEC 60715 Electrical durability <= 30000000 cycles	Delay at power up	<= 650 ms
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CE : EMC 89/336/EEC Overvoltage category Ill conforming to IEC 60664-1 Insulation resistance > 500 MOhm at 500 V DC conforming to IEC 60664-1 > 500 MOhm at 500 V DC conforming to IEC 60664-1 > 500 MOhm at 500 V DC conforming to IEC 60255-5 [Ui] rated insulation voltage 400 V conforming to IEC 60664-1 Supply frequency 50/60 Hz +/- 10 % Operating position Any position without Connections - terminals Screw terminals 2 x 0.22 x 1.5 mm² - AWG 24AWG 16, flexible cable with cable end Screw terminals 1 x 0.21 x 2.5 mm² - AWG 24AWG 12, flexible cable with cable end Screw terminals 2 x 0.52 x 2.5 mm² - AWG 20AWG 14, solid cable without cable end Screw terminals 1 x 0.51 x 4 mm² - AWG 20AWG 11, solid cable without cable end Tightening torque 0.61 N.m conforming to IEC 60947-1 Housing material Self-extinguishing plastic Status LED 1 LED yellow for relay Mounting support 35 mm symmetrical DIN rail conforming to EN/IEC 60715 Electrical durability <= 30000000 cycles Mechanical durability <= 30000000 cycles	Response time	<= 130 ms in the event of a fault
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Supply frequency Solon Hz +/- 10 %	Overvoltage category	III conforming to IEC 60664-1
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Operating position Any position without Connections - terminals Screw terminals 2 x 0.22 x 1.5 mm² - AWG 24AWG 16, flexible cable with cable end Screw terminals 1 x 0.21 x 2.5 mm² - AWG 24AWG 12, flexible cable with cable end Screw terminals 2 x 0.52 x 2.5 mm² - AWG 20AWG 14, solid cable without cable end Screw terminals 1 x 0.51 x 4 mm² - AWG 20AWG 11, solid cable without cable end Tightening torque 0.61 N.m conforming to IEC 60947-1 Housing material Self-extinguishing plastic Status LED 1 LED yellow for relay Mounting support 35 mm symmetrical DIN rail conforming to EN/IEC 60715 Electrical durability 100000 cycles Mechanical durability <= 30000000 cycles	[Ui] rated insulation voltage	400 V conforming to IEC 60664-1
Connections - terminals Screw terminals 2 x 0.22 x 1.5 mm² - AWG 24AWG 16, flexible cable with cable end Screw terminals 1 x 0.21 x 2.5 mm² - AWG 24AWG 12, flexible cable with cable end Screw terminals 2 x 0.52 x 2.5 mm² - AWG 20AWG 14, solid cable without cable end Screw terminals 1 x 0.51 x 4 mm² - AWG 20AWG 11, solid cable without cable end Tightening torque 0.61 N.m conforming to IEC 60947-1 Housing material Self-extinguishing plastic Status LED 1 LED yellow for relay Mounting support 35 mm symmetrical DIN rail conforming to EN/IEC 60715 Electrical durability 100000 cycles Mechanical durability <= 30000000 cycles	Supply frequency	50/60 Hz +/- 10 %
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Status LED 1 LED yellow for relay Mounting support 35 mm symmetrical DIN rail conforming to EN/IEC 60715 Electrical durability 100000 cycles Mechanical durability <= 30000000 cycles	Tightening torque	0.61 N.m conforming to IEC 60947-1
Mounting support 35 mm symmetrical DIN rail conforming to EN/IEC 60715 Electrical durability 100000 cycles Mechanical durability <= 30000000 cycles	Housing material	Self-extinguishing plastic
Electrical durability 100000 cycles Mechanical durability <= 30000000 cycles	Status LED	1 LED yellow for relay
Mechanical durability <= 30000000 cycles	Mounting support	35 mm symmetrical DIN rail conforming to EN/IEC 60715
<u> </u>	Electrical durability	100000 cycles
Operating rate <= 360 operations/hour under full load	Mechanical durability	<= 30000000 cycles
	Operating rate	<= 360 operations/hour under full load

Utilisation category	DC-13 conforming to IEC 60947-5-1
Cuisation category	DC-12 conforming to IEC 60947-5-1
	AC-15 conforming to IEC 60947-5-1
	AC-14 conforming to IEC 60947-5-1
	AC-13 conforming to IEC 60947-5-1
	AC-12 conforming to IEC 60947-5-1
Width	17.5 mm
Product weight	0.13 kg
Environment	
Electromagnetic compatibility	Immunity for industrial environments conforming to EN/IEC 61000-6-2
	Emission standard for residential, commercial and light-industrial environments
	conforming to EN/IEC 61000-6-3
	Emission standard for industrial environments conforming to EN/IEC 61000-6-4
Standards	EN/IEC 60255-1
Product certifications	CSA
	C-Tick
	GL GOST
	UL
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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	1 gn (f = 57.6150 Hz) conforming to IEC 60068-2-6/IEC 60255-21-1
	0.35 mm (f = 557.6 Hz) conforming to IEC 60068-2-6/IEC 60255-21-1
Shock resistance	15 gn for 11 ms conforming to IEC 60255-21-1
IP degree of protection	IP30 (casing) conforming to IEC 60529
	IP20 (terminals) conforming to IEC 60529
Pollution degree	3 conforming to IEC 60664-1
Dielectric test voltage	2 kV 1 min AC 50 Hz
Non-dissipating shock wave	4 kV