Product data sheet
Characteristics

RM35TF30
multifunction phase control relay RM35-T - range 194..528 V AC

Main

Range of product	Zelio Control
Product or component type	Modular measurement and control relays
Relay type	Multifunction control relay
Product specific application	For 3-phase supply
Relay name	RM35TF
Relay monitored parameters	Asymmetry Phase failure detection Phase sequence Undervoltage and overvoltage in window mode
Time delay	Adjustable 0,1...10 s 10 %
Switching capacity in VA	1250 VA
Measurement range	194...528 V AC

Complementary

Reset time	≤ 1500 ms at 480 V
Maximum switching voltage	250 V AC 250 V DC
Minimum switching current	10 mA 5 V DC
Maximum switching current	5 A DC 5 A AC
[Us] rated supply voltage	220...480 V AC
Supply voltage limits	194...528 V AC 3 phases
Control circuit voltage limits	- 12 %, + 10 % Un
Power consumption in VA	≤ 2,9 VA AC
Voltage detection threshold	< 194 V
Control circuit frequency	50...60 Hz +/- 10 %
Width	35 mm
Output contacts	2 C/O
Nominal output current	5 A
Hysteresis	2 %
Run up delay at power up	0,5 s time delay
Measuring cycle	≤ 140 ms measurement cycle as true rms value
Threshold adjustment voltage	-20...-2 % in the range 380...480 V AC -12...-2 % in the range 220 V AC +2...+10 % in the range 480 V AC +2...+20 % in the range 220...440 V AC 2...20 % of Un selected
Voltage range	220 V phase to phase 380 V phase to phase 400 V phase to phase 415 V phase to phase 440 V phase to phase 480 V phase to phase
Adjustment of asymmetry threshold	5...15 % of Un selected
Measurement accuracy	+/- 10 % of the full scale value
Repeat accuracy	0,3 % time delay 0,5 % input and measurement circuit
Measurement error	0.05 %/°C with temperature variation < 1 % over the whole range with voltage variation
Response time	< 200 ms in the event of a fault

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Marking	CE : 73/23/EEC CE : EMC 89/336/EEC
Overvoltage category	III IEC 60664-1
Insulation resistance	> 500 MOhm 500 V DC IEC 60664-1 > 500 MOhm 500 V DC IEC 60255-5
[Ui] rated insulation voltage	400 V IEC 60664-1
Supply frequency	50/60 Hz +/- 10 %
Operating position	Any position without
Electrical connection	1 conductor cable 0,5...4 mm² AWG20...AWG11 solid without cable end IEC 60947-1 1 conductor cable 0,2...2,5 mm² AWG24...AWG12 flexible with cable end IEC 60947-1 2 conductors cable 0,5...2,5 mm² AWG20...AWG14 solid without cable end IEC 60947-1 2 conductors cable 0,2...1,5 mm² AWG24...AWG16 flexible with cable end IEC 60947-1
Tightening torque	0,6...1 N.m IEC 60947-1
Housing material	Self-extinguishing plastic
Status LED	1 LED green power ON 1 LED yellow relay ON 1 LED yellow fault
Mounting support	35 mm symmetrical DIN rail EN/IEC 60715
Electrical durability	100000 cycles
Mechanical durability	30000000 cycles
Operating rate	<= 360 operations/hour full load
Utilisation category	AC-12 IEC 60947-5-1 AC-13 IEC 60947-5-1 AC-14 IEC 60947-5-1 AC-15 IEC 60947-5-1 DC-12 IEC 60947-5-1 DC-13 IEC 60947-5-1
Product weight	0,13 kg

Environment

Immunity to microbreaks	10 ms
Electromagnetic compatibility	Emission standard for industrial environments EN/IEC 61000-6-4 Emission standard for residential, commercial and light-industrial environments EN/IEC 61000-6-3 Immunity for industrial environments EN/IEC 61000-6-2
Standards	EN/IEC 60255-6
Product certifications	C-Tick CSA GL GOST UL
Ambient air temperature for storage	-40...70 °C
Ambient air temperature for operation	-20...50 °C
Relative humidity	95 % 55 °C IEC 60068-2-30
Vibration resistance	0.35 mm 5...57,6 Hz IEC 60068-2-6/IEC 60255-21-1 1 gn 57,6...150 Hz IEC 60068-2-6/IEC 60255-21-1
Shock resistance	15 gn 11 ms IEC 60255-21-1
IP degree of protection	IP20 terminals IEC 60529 IP30 casing IEC 60529
Pollution degree	3 IEC 60664-1
Dielectric test voltage	2 kV 1 min AC 50 Hz
Non-dissipating shock wave	4 kV
RoHS EUR conformity date	0701
RoHS EUR status	Compliant