



## 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 type	Adjustable 0.1...10 s, +/- 10 % of the full scale value
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 at 5 V DC
Maximum switching current	5 A AC 5 A DC
Supply voltage limits	194...528 V AC, 3 phases
Control circuit voltage limits	- 12 % + 10 % Un
Power consumption in VA	0...22 VA at 400 V AC 50 Hz
Voltage detection threshold	< 194 V
Control circuit frequency	50...60 Hz +/- 10 %
Output contacts	2 C/O
Nominal output current	5 A
Hysteresis	2 %
Run-up delay at power-up	<= 650 ms
Measuring cycle	<= 140 ms measurement cycle as true rms value
Threshold adjustment voltage	+2...+10 % in the range 480 V AC +2...+20 % in the range 220...440 V AC -12...-2 % in the range 220 V AC 2...20 % of Un selected -20...-2 % in the range 380...480 V AC
Voltage range	220...480 V phase to phase
Adjustment of asymmetry threshold	5...15 % of Un selected
Repeat accuracy	0.3 % time delay 0.5 % input and measurement circuit
Measurement error	< 1 % over the whole range with voltage variation 0.05 %/°C with temperature variation
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

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Connections - terminals	<p>Screw terminals 1 x 0.5...1 x 4 mm<sup>2</sup> - AWG 20...AWG 11, solid cable without cable end</p> <p>Screw terminals 2 x 0.5...2 x 2.5 mm<sup>2</sup> - AWG 20...AWG 14, solid cable without cable end</p> <p>Screw terminals 1 x 0.2...1 x 2.5 mm<sup>2</sup> - AWG 24...AWG 12, flexible cable with cable end</p> <p>Screw terminals 2 x 0.2...2 x 1.5 mm<sup>2</sup> - AWG 24...AWG 16, flexible cable with cable end</p>
Tightening torque	5.31...8.85 lbf.in (0.6...1 N.m) conforming to IEC 60947-1
Housing material	Self-extinguishing plastic
Local signalling	<p>LED green power ON</p> <p>LED yellow relay ON</p> <p>LED yellow fault</p>
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 under full load
Utilisation category	<p>AC-12 conforming to IEC 60947-5-1</p> <p>AC-13 conforming to IEC 60947-5-1</p> <p>AC-14 conforming to IEC 60947-5-1</p> <p>AC-15 conforming to IEC 60947-5-1</p> <p>DC-12 conforming to IEC 60947-5-1</p> <p>DC-13 conforming to IEC 60947-5-1</p>
Safety reliability data	<p>MTTFd = 399.5 years</p> <p>B10d = 360000</p>
Width	1.38 in (35 mm)
Product weight	0.29 lb(US) (0.13 kg)

## Environment

electromagnetic compatibility	<p>Emission standard for industrial environments conforming to EN/IEC 61000-6-4</p> <p>Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-3</p> <p>Immunity for industrial environments conforming to EN/IEC 61000-6-2</p>
standards	EN/IEC 60255-1
product certifications	<p>CSA</p> <p>C-Tick</p> <p>GL</p> <p>GOST</p> <p>UL</p>
directives	<p>89/336/EEC - electromagnetic compatibility</p> <p>73/23/EEC - low voltage directive</p>
ambient air temperature for storage	-40...158 °F (-40...70 °C)
ambient air temperature for operation	-4...122 °F (-20...50 °C)
relative humidity	95 % at 131 °F (55 °C) conforming to IEC 60068-2-30
vibration resistance	<p>0.35 mm (f = 5...57.6 Hz) conforming to IEC 60068-2-6</p> <p>1 gn (f = 57.6...150 Hz) conforming to IEC 60255-21-1</p>
shock resistance	15 gn 11 ms conforming to IEC 60255-21-1
IP degree of protection	<p>IP20(terminals) conforming to IEC 60529</p> <p>IP30 (casing) conforming to IEC 60529</p>
pollution degree	3 conforming to IEC 60664-1
dielectric test voltage	2 kV 1 min AC 50 Hz
non-dissipating shock wave	4 kV

## Offer Sustainability

Green Premium product	Green Premium product
Compliant - since 0652 - Schneider Electric declaration of conformity	Compliant - since 0652 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Available	Available
Available	Available
WARNING: This product can expose you to chemicals including:	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	Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.

reproductive harm.

For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov) For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

Contractual warranty

Warranty period	18 months
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