Product data sheet

Specifications

Green Premium™

Modular measurement and relay, Harmony relay, 3-phase supply, 5A, 220...480V AC, 2 C/O

RM35TF30SP01

Discontinued on: May 19, 2023

Discontinued

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

Range Of Product	Harmony Relay
Relay Type	Multifunction control relay
Product Or Component Type	Modular measurement and control relays
Product Specific Application	For 3-phase supply
Relay Name	RM35TF
Relay Monitored Parameters	Phase sequence Asymmetry Undervoltage and overvoltage in window mode Phase failure detection
Time Delay	Adjustable 0.1...10 s, +/- 10 % of the full scale value
Switching Capacity In Va	1250 VA

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 AC 5 A DC
Supply Voltage Limits	194…528 V AC, 3 phase
Control Circuit Voltage Limits	- 12 % + 10 % Un
Power Consumption In Va	0…22 VA 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 %
Delay At Power Up	650 ms
Maximum Measuring Cycle	140 ms measurement cycle as true rms value
Threshold Adjustment Voltage	2...20 % of Un selected -12...-2 % in the range 220 V AC +2...+10 % in the range 480 V AC -20...-2 % in the range 380...480 V AC +2...+20 % in the range 220...440 V AC

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: 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

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 IEC 60664-1
Insulation Resistance	> 500 MOhm 500 V DC IEC 60255-5 > 500 MOhm 500 V DC IEC 60664-1
[Ui] Rated Insulation Voltage	400 V IEC 60664-1
Supply Frequency	50/60 Hz +/- 10 %
Operating Position	Any position without derating
Connections - Terminals	Screw terminals, 1 x 0.5...1 x 4 mm² AWG 20...AWG 11) solid without cable end Screw terminals, 2 x 0.5...2 x 2.5 mm² AWG 20...AWG 14) solid without cable end Screw terminals, 1 x 0.2...1 x 2.5 mm² AWG 24...AWG 12) flexible with cable end Screw terminals, 2 x 0.2...2 x 1.5 mm² AWG 24...AWG 16) flexible with cable end
Tightening Torque	5.31…8.85 lbf.in (0.6…1 N.m) IEC 60947-1
Housing Material	Self-extinguishing plastic
Local Signalling	for power ON LED (green) for relay ON LED (yellow) for fault LED (yellow)
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 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
Safety Reliability Data	B10d = 360000 MTTFd = 399.5 years
Width	1.38 in (35 mm)
Net Weight	0.29 lb(US) (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	CSA C-tick GL GOST UL
Directives	89/336/EEC - electromagnetic compatibility 73/23/EEC - low voltage directive

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 % 131 °F (55 °C) IEC 60068-2-30
Vibration Resistance	0.35 mm 5…57.6 Hz)IEC 60068-2-6 1 gn 57.6…150 Hz)IEC 60255-21-1
Shock Resistance	15 gn 11 ms IEC 60255-21-1
Ip Degree Of Protection	IP20 IEC 60529 terminals) IP30 IEC 60529 casing)
Pollution Degree	3 IEC 60664-1
Dielectric Test Voltage	2 kV AC 50 Hz, 1 min
Non-Dissipating Shock Wave	4 kV

Ordering and shipping details

Category	US10CP222380
Discount Schedule	0CP2
Gtin	3389119215442
Returnability	No
Country Of Origin	ID

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	3.07 in (7.800 cm)
Package 1 Width	3.78 in (9.600 cm)
Package 1 Length	1.77 in (4.500 cm)
Package 1 Weight	4.59 oz (130 g)
Unit Type Of Package 2	S01
Number Of Units In Package 2	12
Package 2 Height	5.91 in (15.000 cm)
Package 2 Width	5.91 in (15.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	3.94 lb(US) (1.785 kg)

Contractual warranty

Warranty	18 months

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency RoHS/REACh

Well-being performance

Mercury Free

Rohs Exemption Information Yes

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
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