

RM35TF30

Harmony, 3 phase supply control relay, range 220 to 480 VAC, sequence, phase failure, phase imbalance, voltage



Galvenā

Produkta sērija	Harmony Control Relays
Relay type	Multifunction control relay
Produkta vai sastāvdaļas veids	3-phase control relay
Produkta specifiskais pielietojums	For 3-phase supply
Relay name	RM35TF
Relay monitored parameters	Undervoltage and overvoltage in window mode Phase sequence Phase failure detection Asymmetry
Time delay	Adjustable 0.1...10 s, +/- 10 % of the full scale value
Switching capacity in VA	1250 VA
Measurement range	220...480 V AC
Kontaktligzdas tips	2 C/O
[Uc] control circuit voltage	220...480 V

Papildinošs

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
[Un] rated nominal voltage	, self-powered
Supply voltage limits	194...528 V AC, 3 fāzes
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
Measurement voltage limits	176...528 V AC
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
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)

Marķējums	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
Barošanas frekvence	50/60 Hz +/- 10 %
Operating position	Any position without derating
Connections - terminals	Skrūvju spaiļes, 1 x 0.5...1 x 4 mm ² AWG 20...AWG 11) ciets without cable end Skrūvju spaiļes, 2 x 0.5...2 x 2.5 mm ² AWG 20...AWG 14) ciets without cable end Skrūvju spaiļes, 1 x 0.2...1 x 2.5 mm ² AWG 24...AWG 12) elastīgs with cable end Skrūvju spaiļes, 2 x 0.2...2 x 1.5 mm ² AWG 24...AWG 16) elastīgs with cable end
Tightening torque	0,6...1 N.m IEC 60947-1
Korpasa materiāls	Self-extinguishing plastic
Lokālā signalizēšana	Priekš barošana IESLĒGTA LED (zaļš) Priekš relay ON LED (dzeltens) Priekš kļūda LED (dzeltens)
Montāžas stiprinājums	35 mm symmetrical DIN rail atbilst IEC 60715
Elektriskā izturība	100000 cikli
Mehāniskā izturība	30000000 cikli
Operating rate	<= 360 operations/hour pilna slodze
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	MTTFd = 399.5 years B10d = 360000
Platums	35 mm
Neto svars	0,13 kg
Vadības veids	Without test button

Vide

Electromagnetic compatibility	Emission standard for industrial environments conforming to IEC 61000-6-4 Emission standard for residential, commercial and light-industrial environments conforming to IEC 61000-6-3 Immunity for industrial environments conforming to IEC 61000-6-2
Standarti	IEC 60255-1
Produkta sertifikācija	GL[RETURN]UL[RETURN]CSA[RETURN]GOST[RETURN]C-Tick
Direktīvas	89/336/EEC - electromagnetic compatibility 73/23/EEC - low voltage directive
Apkārtējā gaisa temperatūra uzglabāšanai	-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 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

Iepakojšanas vienības

Pirmā iepakojuma vienības tips	PCE
Vienību skaits 1. iepakojumā	1
1. iepakojuma augstums	4,800 cm
1. iepakojuma platums	7,800 cm
1. iepakojuma garums	9,700 cm
1. iepakojuma svars	133,000 g
Otrā iepakojuma vienības tips	S03

Vienību skaits 2. iepakojumā	48
2. iepakojuma augstums	30,000 cm
2. iepakojuma platums	30,000 cm
2. iepakojuma garums	40,000 cm
2. iepakojuma svars	7,070 kg
Trešā iepakojuma vienības tips	P06
Vienību skaits 3. iepakojumā	384
3. iepakojuma augstums	75,000 cm
3. iepakojuma platums	60,000 cm
3. iepakojuma garums	80,000 cm
3. iepakojuma svars	64,124 kg

Piedāvājiēt ilgtspēju

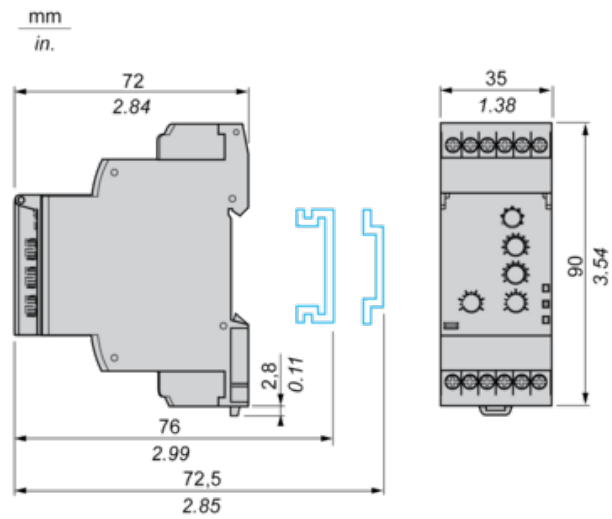
Ilgtspējīgs piedāvājuma statuss	Green Premium izstrādājums
REACH regula	REACH Deklarācija
ES RoHS direktīva	Proaktīva atbilstība (uz izstrādājumu neattiecas ES RoHS juridiskās saistības)
Nesatur dzīvsudrabu	Jā
Ķīnas RoHS regula	Ķīnas RoHS Deklarācija
Informācija par RoHS izņēmumiem	Jā
Vides informācijas publicēšana	Produkta Ietekme Uz Vidi
Cirkularitātes profils	Informācija Par Eksploatācijas Izbeigšanu

Līguma garantija

Garantija	18 months
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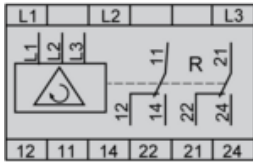
Multifunction 3-Phase Supply Control Relays

Dimensions and Mounting



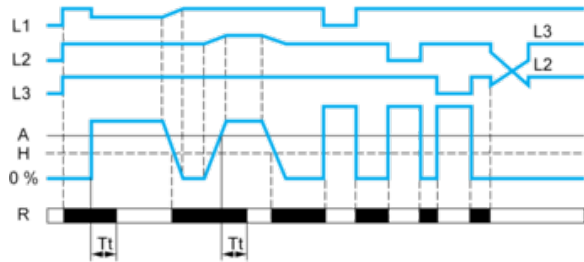
Multifunction 3-Phase Supply Control Relays

Wiring Diagram

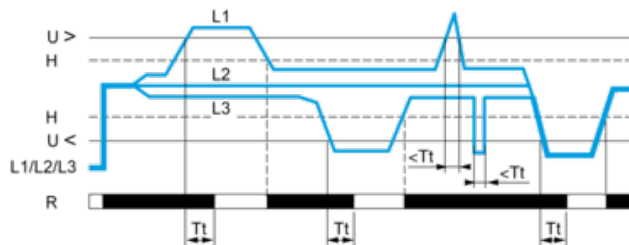


Function Diagrams

Phase Sequence Control, Phase Failure Detection ($U_{\text{measured}} < 0.7 \times \text{nominal supply voltage}$) and Asymmetry Detection



Control of Overvoltage and Undervoltage in Window Mode



Legend

- A Asymmetry threshold
- Tt Time delay after crossing of threshold
- H Hysteresis
- U> Overvoltage threshold
- U< Undervoltage threshold
- L1, L2, L3 Phases of the supply voltage monitored
- R Output relay
- Relay status: black color = energized.