# RM4TR35

three-phase network control relay RM4-T - 110 V - 2 C/O



#### Main

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Range of product	Zelio Control
Product or component type	Industrial measurement and control relays
Relay type	Control relay
Product specific application	For 3-phase supply
Relay name	RM4-T
Relay monitored parameters	Overvoltage and undervoltage detection Phase failure detection Phase sequence
Time delay	Adjustable 0.110 s
Contacts type and composition	2 C/O
Poles description	3P

#### Complementary

2 C/O
+/-3 %
<= 0.5 % within the measuring range <= 0.06 % per degree centigrade depending permissible ambient air temperature
10 P
<= 0.5 % within the measuring range <= 0.07 % per degree centigrade depending on the rated operational temperature
5 % fixed of de-energisation threshold
< 650 ms
<= 80 ms
CE
III conforming to IEC 60664-1
500 V conforming to IEC
50/60 Hz +/- 5 %
Any position without
Screw terminals 2 x 2.5 mm², flexible cable without cable end Screw terminals 2 x 1.5 mm², flexible cable with cable end
0.61.1 N.m
<= 30000000 cycles
8 A
0.3 A at 70 °C 115 V DC-13 conforming to VDE 0660 0.3 A at 70 °C 115 V DC-13 conforming to IEC 60947-5-1/1991 0.1 A at 70 °C 250 V DC-13 conforming to VDE 0660 0.1 A at 70 °C 250 V DC-13 conforming to IEC 60947-5-1/1991 3 A at 70 °C 250 V AC-15 conforming to VDE 0660 3 A at 70 °C 250 V AC-15 conforming to IEC 60947-5-1/1991 3 A at 70 °C 24 V AC-15 conforming to VDE 0660 3 A at 70 °C 24 V AC-15 conforming to IEC 60947-5-1/1991 3 A at 70 °C 24 V AC-15 conforming to VDE 0660 3 A at 70 °C 115 V AC-15 conforming to VDE 0660 2 A at 70 °C 24 V DC-13 conforming to VDE 0660 2 A at 70 °C 24 V DC-13 conforming to VDE 0660
10 mA at 12 V
250 V AC <= 440 V AC
90/10 silver nickel contacts
2

Height	78 mm	
Width	22.5 mm	
Depth	80 mm	
Terminals description ISO n°1	(15-16-18)OC (25-26-28)OC (L1-L2-L3)CO	
Output relay state	Tripped, fault present	
9 mm pitches	2.5	
Product weight	0.11 kg	

#### Environment

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Standards	EN/IEC 60255-6	
Product certifications	CSA	
	GL	
	UL	
Directives	89/336/EEC - electromagnetic compatibility	
	73/23/EEC - low voltage directive	
Ambient air temperature for storage	-4085 °C	
Ambient air temperature for operation	-2065 °C	
Relative humidity	1585 % 3K3 conforming to IEC 60721-3-3	
Vibration resistance	0.35 ms (f = 1055 Hz) conforming to IEC 60068-2-6	
Shock resistance	15 gn for 11 ms conforming to IEC 60068-2-27	
IP degree of protection	IP50 (casing) conforming to IEC 60529	
	IP20 (terminals) conforming to IEC 60529	
Pollution degree	3 conforming to IEC 60664-1	
Dielectric test voltage	2.5 kV	
Non-dissipating shock wave	4.8 kV	
Resistance to electrostatic discharge	8 kV air conforming to IEC 61000-4-2 level 3	
	6 kV contact conforming to IEC 61000-4-2 level 3	
Resistance to electromagnetic fields	10 V/m conforming to IEC 61000-4-3 level 3	
Resistance to fast transients	2 kV conforming to IEC 61000-4-4 level 3	
Disturbance radiated/conducted	CISPR 11 group 1 - class A	
	CISPR 22 - class A	

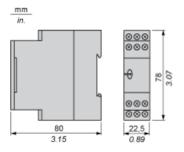


# Product data sheet Dimensions Drawings

# RM4TR35

## 3-phase Supply Control Relays

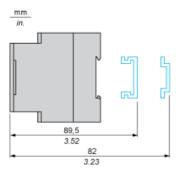
#### Dimensions



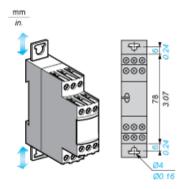
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#### 3-phase Supply Control Relays

#### Rail mounting



## Screw fixing



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#### 3-Phase Supply Control Relays

#### Wiring Diagram



Supply to be monitored

L2,

L3

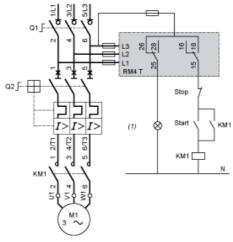
15-181st C/O contact of the output relay 15-16

25-282nd C/O contact of the output relay

25-26

### **Application Scheme**

#### Example

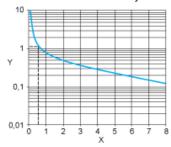


(1) Fault

#### **Electrical Durability and Load Limit Curves**

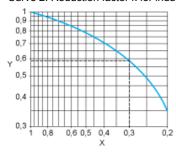
#### AC Load

Curve 1: Electrical durability of contacts on resistive load in millions of operating cycles



- Current broken in A
- X Y Millions of operating cycles

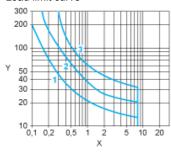
Curve 2: Reduction factor k for inductive loads (applies to values taken from durability Curve 1)



- X Y Power factor on breaking (cos φ)
- Reduction factor K

#### DC Load

Load limit curve



- Current in A
- X Y Voltage in V
- 1 L/R = 20 ms
- L/R with load protection diode
- 2 3 Resistive load

