# **Product datasheet**

Specifications





Harmony, 3 phase supply control relay, range 208 to 480 VAC, sequence, phase failure, phase imbalance, voltage

RM17TE00

### Main

Range Of Product	Harmony Control Relays	
Relay Type	Multifunction control relay	
Product Or Component Type	3-phase control relay	
Product Specific Application	For 3-phase supply	
Relay Name	RM17TE	
Relay Monitored Parameters	Undervoltage and overvoltage in window mode Asymmetry Phase sequence Phase failure detection	
Time Delay	Adjustable 0.110 s, +/- 10 % of the full scale value Tt- time delay upon fault	
Switching Capacity In Va	1250 VA	
Measurement Range	208480 V AC	
Contacts Type And Composition	1 C/O	
[Uc] Control Circuit Voltage	208480 V	

## Complementary

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Reset Time	1500 ms time delay
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
[Un] Rated Nominal Voltage	, self-powered
Supply Voltage Limits	183528 V AC
Control Circuit Voltage Limits	- 12 % + 10 % Un
Power Consumption In Va	022 VA at 400 V AC 50 Hz
Control Circuit Frequency	5060 Hz +/- 10 %
Output Contacts	1 C/O
Nominal Output Current	5 A
Measurement Voltage Limits	183528 V AC
Hysteresis	2 %
Delay At Power Up	650 ms
Maximum Magauring Cuala	

Maximum Measuring Cycle

150 ms measurement cycle as true rms value

Screw terminals, $2 \times 0.52 \times 2.5 \text{ mm}^2$ (AWG 20AWG 14) solid without cable end Screw terminals, $1 \times 0.21 \times 2.5 \text{ mm}^2$ (AWG 24AWG 12) flexible with cable end		
+2+10 % in the range 208 V AC         -2+12 % in the range 208 V AC         Voltage Range       208480 V phase to phase         Adjustment Of Asymmetry       515 % of Un selected         Repeat Accuracy       0.5 % for input and measurement circuit         3 % for time delay         Measurement Error       < 0.05 %/°C with temperature variation	Threshold Adjustment Voltage	
-212 % in the range 208 V AC       Voltage Range     208480 V phase to phase       Adjustment Of Asymmetry     515 % of Un selected       Threshold     0.5 % for input and measurement circuit       3 % for time delay     0.5 % for input and measurement circuit       8 measurement Error     < 0.05 %/C with temperature variation		•
Voltage Range         208480 V phase to phase           Adjustment Of Asymmetry         515 % of Un selected           Repeat Accuracy         0.5 % for input and measurement circuit           3 % for time delay           Measurement Error         < 0.05 %/°C with temperature variation		· · · · · · · · · · · · · · · · · · ·
Adjustment Of Asymmetry Threshold       515 % of Un selected         Repeat Accuracy       0.5 % for input and measurement circuit 3 % for time delay         Measurement Error       < 0.05 %/°C with temperature variation < 1 % over the whole range with voltage variation		
Threshold       0.5 % for input and measurement circuit         Repeat Accuracy       0.5 % for input and measurement circuit         3 % for time delay         Measurement Error       < 0.05 %/°C with temparature variation	Voltage Range	208480 V phase to phase
3 % for time delay         Measurement Error       < 0.05 %/°C with temparature variation		515 % of Un selected
Measurement Error       < 0.05 %/°C with temperature variation	Repeat Accuracy	0.5 % for input and measurement circuit
< 1 % over the whole range with voltage variation		3 % for time delay
< 1 % over the whole range with voltage variation	Measurement Error	< 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 60664-1         [U]] Rated Insulation Voltage       400 V conforming to IEC 60664-1         Supply Frequency       50/60 Hz +/- 10 %         Operating Position       Any position without derating         Connections - Terminals       Screw terminals, 1 x 0.51 x 4 mm² (AWG 20AWG 11) solid without cable end Screw terminals, 2 x 0.52 x 2.5 mm² (AWG 20AWG 12) flexible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 12) flexible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.5 2 x 1.5 mm² (AWG 20AWG 12) flexible with cable end Screw terminals, 2 x 0.5 2 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.5 2 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.5 2 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.5 2 x 1.5 mm² (AWG 20AWG 16) flexible with cable end Screw termina	Phase Failure Sensitivity	0.7 Un
Overvoltage Category       III conforming to IEC 60664-1         Insulation Resistance       > 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 derating         Connections - Terminals       Screw terminals, 1 x 0.51 x 4 mm² (AWG 20AWG 11) solid without cable end Screw terminals, 2 x 0.52 x 2.5 mm² (AWG 20AWG 12) fielyible with cable end Screw terminals, 1 x 0.2 x 2.5 mm² (AWG 20AWG 12) fielyible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 14) solid without cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 14) solid without cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 14) solid without cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 14) solid without cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 14) solid without cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 14) solid without cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 14) solid without cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 14) solid without cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 12) fielyible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 12) fielyible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 12) fielyible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 12) fielyible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 12) fielyible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 12) fielyible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 15) fielyible	Response Time	< 200 ms (in the event of a fault)
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 derating         Connections - Terminals       Screw terminals, 1 x 0.5 1 x 4 mm² (AWG 20AWG 11) solid without cable end Screw terminals, 1 x 0.2 2 x 1.5 mm² (AWG 20AWG 14) solid without cable end Screw terminals, 1 x 0.2 1 x 2.5 mm² (AWG 20AWG 12) flexible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw	Marking	CE
> 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 derating         Connections - Terminals       Screw terminals, 1 x 0.51 x 4 mm² (AWG 20AWG 11) solid without cable end Screw terminals, 2 x 0.52 x 2.5 mm² (AWG 24AWG 14) solid without cable end Screw terminals, 1 x 0.21 x 25 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 1 x 0.21 x 25 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 1 x 0.21 x 25 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 1 x 0.21 x 25 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 10) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 10) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 10) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 10) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 10) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AC-12 conforming to IEC 6094	Overvoltage Category	III 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 derating         Connections - Terminals       Screw terminals, 1 x 0.51 x 4 mm² (AWG 20AWG 11) solid without cable end Screw terminals, 2 x 0.52 x 2.5 mm² (AWG 24AWG 12) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 12) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 12) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 12) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 12) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 12) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 12) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 12) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 12) flexible with a transpoud to table end to ta to the table end to the table end to the ta	Insulation Resistance	> 500 MOhm at 500 V DC conforming to IEC 60255-5
Supply Frequency       50/60 Hz +/- 10 %         Operating Position       Any position without derating         Connections - Terminals       Screw terminals, 1 x 0.51 x 4 mm² (AWG 20AWG 11) solid without cable end Screw terminals, 1 x 0.21 x 2.5 mm² (AWG 24AWG 12) flexible with cable end Screw terminals, 1 x 0.21 x 2.5 mm² (AWG 24AWG 12) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with and the terminals terminals terminals terdition (Screw terminals, 2 x 0.22 x 0.22 x 1.5 m² (Screw t		> 500 MOhm at 500 V DC conforming to IEC 60664-1
Operating Position       Any position without derating         Connections - Terminals       Screw terminals, 1 x 0.51 x 4 mm² (AWG 20AWG 11) solid without cable end Screw terminals, 2 x 0.52 x 2.5 mm² (AWG 24AWG 12) lexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 1 x 0.21 x 2.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 1 x 0.21 x 2.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 1 x 0.21 x 2.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 1 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 11) solid without cable end Screw terminals, 1 x 0.2AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible tadd there terd terminals, 2 x 0.22 x 1.5 mm² (AWG 2	[Ui] Rated Insulation Voltage	400 V conforming to IEC 60664-1
Connections - Terminals       Screw terminals, 1 x 0.51 x 4 mm² (AWG 20AWG 11) solid without cable end Screw terminals, 2 x 0.52 x 2.5 mm² (AWG 20AWG 14) solid without cable end Screw terminals, 1 x 0.21 x 2.5 mm² (AWG 24AWG 12) flexible with cable en Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en Screw terminals, 2 x 0.22 x 1.5 m² (AWG 24AWG 16) flexible with cable en Screw terminals, 2 x 0.22 x 1.5 m² (AWG 24AWG 16) flexible with cable en Screw terminals, 2 x 0.22 x 1.5 m² (AWG 24AWG 16) flexible with cable en Screw terminals, 2 x 0.22 x 1.5 m² (AWG 24AWG 16) flexible with cable en Screw terminals, 2 x 0.22 x 1.5 m² (AWG 24AWG 12) flexible with cable en Screw terminals, 1 x 0.5 mint flexible with 0.13 kg	Supply Frequency	50/60 Hz +/- 10 %
Screw terminals, 2 x 0.52 x 2.5 mm² (AWG 20AWG 14) solid without cable en         Screw terminals, 1 x 0.21 x 2.5 mm² (AWG 24AWG 12) flexible with cable en         Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en         Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en         Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en         Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en         Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en         Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en         Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en         Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en         Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en         Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en         Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en         Tightening Torque       0.61 N.m conforming to IEC 60947-51         Local Signalling       LED (green) for power ON         Lec flexibility Data       MTFd = 502.2 years         B10d = 470000       B10d = 470000         Width       17.5 mm         Net Weight       0.13 kg	Operating Position	Any position without derating
Screw terminals, 1 x 0.21 x 2.5 mm² (AWG 24AWG 12) flexible with cable en         Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en         Tightening Torque       0.61 N.m conforming to IEC 60947-1         Housing Material       Self-extinguishing plastic         Local Signalling       LED (green) for power ON         LED (yellow) for relay ON       Mounting Support         35 mm symmetrical DIN rail conforming to IEC 60715         Electrical Durability       100000 cycles         Mechanical Durability       30000000 cycles         Operating Rate       <= 360 operations/hour full load	Connections - Terminals	Screw terminals, 1 x 0.51 x 4 mm <sup>2</sup> (AWG 20AWG 11) solid without cable end
Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable en         Tightening Torque       0.61 N.m conforming to IEC 60947-1         Housing Material       Self-extinguishing plastic         Local Signalling       LED (green) for power ON LED (yellow) for relay ON         Mounting Support       35 mm symmetrical DIN rail conforming to IEC 60715         Electrical Durability       100000 cycles         Mechanical Durability       30000000 cycles         Operating Rate       <= 360 operations/hour full load		Screw terminals, 2 x 0.52 x 2.5 mm <sup>2</sup> (AWG 20AWG 14) solid without cable end
Tightening Torque       0.61 N.m conforming to IEC 60947-1         Housing Material       Self-extinguishing plastic         Local Signalling       LED (green) for power ON LED (yellow) for relay ON         Mounting Support       35 mm symmetrical DIN rail conforming to IEC 60715         Electrical Durability       100000 cycles         Mechanical Durability       30000000 cycles         Operating Rate       <= 360 operations/hour full load		Screw terminals, 1 x 0.21 x 2.5 mm <sup>2</sup> (AWG 24AWG 12) flexible with cable end
Housing Material     Self-extinguishing plastic       Local Signalling     LED (green) for power ON LED (yellow) for relay ON       Mounting Support     35 mm symmetrical DIN rail conforming to IEC 60715       Electrical Durability     100000 cycles       Mechanical Durability     30000000 cycles       Operating Rate     <= 360 operations/hour full load		Screw terminals, 2 x 0.22 x 1.5 mm <sup>2</sup> (AWG 24AWG 16) flexible with cable end
Local Signalling       LED (green) for power ON LED (yellow) for relay ON         Mounting Support       35 mm symmetrical DIN rail conforming to IEC 60715         Electrical Durability       100000 cycles         Mechanical Durability       30000000 cycles         Operating Rate       <= 360 operations/hour full load	Tightening Torque	0.61 N.m conforming to IEC 60947-1
LED (yellow) for relay ON         Mounting Support       35 mm symmetrical DIN rail conforming to IEC 60715         Electrical Durability       100000 cycles         Mechanical Durability       30000000 cycles         Operating Rate       <= 360 operations/hour full load	Housing Material	Self-extinguishing plastic
LED (yellow) for relay ON         Mounting Support       35 mm symmetrical DIN rail conforming to IEC 60715         Electrical Durability       100000 cycles         Mechanical Durability       30000000 cycles         Operating Rate       <= 360 operations/hour full load	Local Signalling	LED (green) for power ON
Electrical Durability     100000 cycles       Mechanical Durability     30000000 cycles       Operating Rate     <= 360 operations/hour full load		
Mechanical Durability     3000000 cycles       Operating Rate     <= 360 operations/hour full load	Mounting Support	35 mm symmetrical DIN rail conforming to IEC 60715
Mechanical Durability     3000000 cycles       Operating Rate     <= 360 operations/hour full load	Electrical Devectility	
Operating Rate     <= 360 operations/hour full load		100000 cycles
Utilisation Category         AC-12 conforming to IEC 60947-5-1 AC-13 conforming to IEC 60947-5-1 AC-14 conforming to IEC 60947-5-1 AC-15 conforming to IEC 60947-5-1 DC-12 conforming to IEC 60947-5-1 DC-13 conforming to IEC 60947-5-1           Safety Reliability Data         MTTFd = 502.2 years B10d = 470000           Width         17.5 mm           Net Weight         0.13 kg	Mechanical Durability	3000000 cycles
AC-13 conforming to IEC 60947-5-1           AC-13 conforming to IEC 60947-5-1           AC-14 conforming to IEC 60947-5-1           AC-15 conforming to IEC 60947-5-1           DC-12 conforming to IEC 60947-5-1           DC-13 conforming to IEC 60947-5-1           Safety Reliability Data           MTTFd = 502.2 years           B10d = 470000           Width         17.5 mm           Net Weight         0.13 kg	Operating Rate	<= 360 operations/hour full load
AC-14 conforming to IEC 60947-5-1           AC-15 conforming to IEC 60947-5-1           DC-12 conforming to IEC 60947-5-1           DC-13 conforming to IEC 60947-5-1           Safety Reliability Data           MTTFd = 502.2 years           B10d = 470000           Width           17.5 mm           Net Weight           0.13 kg	Utilisation Category	AC-12 conforming to IEC 60947-5-1
AC-15 conforming to IEC 60947-5-1         DC-12 conforming to IEC 60947-5-1         DC-13 conforming to IEC 60947-5-1         Safety Reliability Data         MTTFd = 502.2 years         B10d = 470000         Width       17.5 mm         Net Weight       0.13 kg		•
DC-12 conforming to IEC 60947-5-1       DC-13 conforming to IEC 60947-5-1       Safety Reliability Data       MTTFd = 502.2 years       B10d = 470000       Width     17.5 mm       Net Weight     0.13 kg		5
DC-13 conforming to IEC 60947-5-1       Safety Reliability Data     MTTFd = 502.2 years B10d = 470000       Width     17.5 mm       Net Weight     0.13 kg		
Safety Reliability Data     MTTFd = 502.2 years B10d = 470000       Width     17.5 mm       Net Weight     0.13 kg		•
B10d = 470000           Width         17.5 mm           Net Weight         0.13 kg		
Net Weight 0.13 kg	Safety Reliability Data	•
	Width	17.5 mm
	Net Weight	0.13 kg
without test button		-
		without lest dullon

## Environment

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
Standards	IEC 60255-1

Product Certifications	GOST
	C-Tick
	CSA
	UL
	GL
Directives	89/336/EEC - electromagnetic compatibility
	73/23/EEC - low voltage directive
Ambient Air Temperature For Storage	-4070 °C
Ambient Air Temperature For Operation	-2050 °C
Relative Humidity	95 % at 55 °C conforming to IEC 60068-2-30
Vibration Resistance	0.35 mm (f= 557.6 Hz) conforming to IEC 60068-2-6
	1 gn (f= 57.6150 Hz) conforming to IEC 60255-21-1
Shock Resistance	15 gn for 11 ms conforming to IEC 60255-21-1
Ip Degree Of Protection	IP20 (terminals) conforming to IEC 60529
	IP30 (casing) conforming to IEC 60529
Pollution Degree	3 conforming to IEC 60664-1
Dielectric Test Voltage	2 kV, 1 min AC 50 Hz conforming to IEC 60255-5
	2 kV, 1 min AC 50 Hz conforming to IEC 60664-1
Non-Dissipating Shock Wave	4 kV conforming to IEC 60255-5
	4 kV conforming to IEC 60664-1
	4 kV conforming to IEC 61000-4-5

## **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.7 cm
Package 1 Width	7.7 cm
Package 1 Length	9.6 cm
Package 1 Weight	92.0 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	48
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	4.936 kg

## **Contractual warranty**

Warranty

18 months

## Sustainability Screen Premium

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

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

Yes

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

### Well-being performance



Rohs Exemption Information

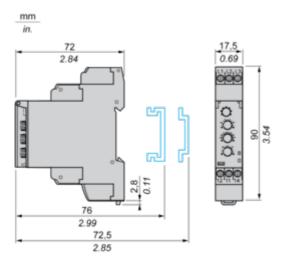
## **Certifications & Standards**

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

**Dimensions Drawings** 

#### Multifunction 3-Phase Supply Control Relays

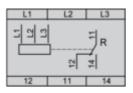
#### **Dimensions and Mounting**



Connections and Schema

#### Multifunction 3-Phase Supply Control Relays

#### Wiring Diagram

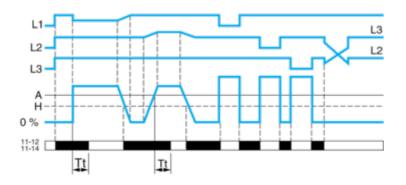


## **Product datasheet**

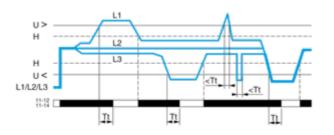
**Technical Description** 

**Function Diagrams** 

Phase Sequence Control, Phase Failure Detection (U measured < 0.7 x nominal supply voltage) and Asymmetry Detection



Control of Overvoltage and Undervoltage in Window Mode



#### Legend

A Asymmetry thershold (adjustble from 5...15% of the nominal supply voltage) **Tt** Time delay after crossing of threshold (adjustable on front panel)

- H Hysteresis
- U> Overvoltage threshold
- U< Undervoltage threshold
- L1, L2, L3 Phases of the supply voltage monitored
- 11-12, 11-14 Output relay connections (refer to Connections and Schema)

Relay status: black color = energized.