# **Product datasheet**

Specifications





## Modular multifunction 3-phase supply control relay, 5 A, 1 CO, 208...480 V AC

Local distributor code: 389834777

RM17TE00

EAN Code: 3389119405058

### 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<br>Asymmetry<br>Phase sequence<br>Phase failure detection |
| Time Delay                    | Adjustable 0.110 s, +/- 10 % of the full scale value                                                  |
| 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

| Reset Time                     | 1500 ms time delay                         |
|--------------------------------|--------------------------------------------|
| Maximum Switching Voltage      | 250 V AC<br>250 V DC                       |
| Minimum Switching Current      | 10 mA at 5 V DC                            |
| Maximum Switching Current      | 5 A AC<br>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 Magguring Cyclo        | 150 ma maasurament suda ee trus reesuralus |

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<br>Threshold       515 % of Un selected         Repeat Accuracy       0.5 % for input and measurement circuit<br>3 % for time delay         Measurement Error       < 0.05 %/°C with temperature variation<br>< 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 12) 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<br>Screw terminals, 2 x 0.52 x 2.5 mm² (AWG 24AWG 14) solid without cable end<br>Screw terminals, 1 x 0.21 x 25 mm² (AWG 24AWG 16) flexible with cable end<br>Screw terminals, 1 x 0.21 x 25 mm² (AWG 24AWG 16) flexible with cable end<br>Screw terminals, 1 x 0.21 x 25 mm² (AWG 24AWG 16) flexible with cable end<br>Screw terminals, 1 x 0.21 x 25 mm² (AWG 24AWG 16) flexible with cable end<br>Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end<br>Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end<br>Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end<br>Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end<br>Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end<br>Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end<br>Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end<br>Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end<br>Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 10) flexible with cable end<br>Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 10) flexible with cable end<br>Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 10) flexible with cable end<br>Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 10) flexible with cable end<br>Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 10) flexible with cable end<br>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 terminal terminal terminal terminal terminaly terminaly terminal terminal terminaly terminal term                        |                               | > 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<br>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<br>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<br>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<br>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<br>AC-13 conforming to IEC 60947-5-1<br>AC-14 conforming to IEC 60947-5-1<br>AC-15 conforming to IEC 60947-5-1<br>DC-12 conforming to IEC 60947-5-1<br>DC-13 conforming to IEC 60947-5-1           Safety Reliability Data         MTTFd = 502.2 years<br>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<br>B10d = 470000       Width     17.5 mm       Net Weight     0.13 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                               |                                                                                        |
| Safety Reliability Data     MTTFd = 502.2 years<br>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<br>Emission standard for residential, commercial and light-industrial environments<br>conforming to IEC 61000-6-3<br>Immunity for industrial environments conforming to IEC 61000-6-2 |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                     | IEC 60255-1                                                                                                                                                                                                                                                     |

| Product Certifications                   | GOST<br>C-Tick<br>CSA<br>UL                                                                            |
|------------------------------------------|--------------------------------------------------------------------------------------------------------|
|                                          | GL                                                                                                     |
| Directives                               | 89/336/EEC - electromagnetic compatibility<br>73/23/EEC - low voltage directive                        |
| Ambient Air Temperature For<br>Storage   | -4070 °C                                                                                               |
| Ambient Air Temperature For<br>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<br>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<br>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<br>2 kV, 1 min AC 50 Hz conforming to IEC 60664-1       |
| Non-Dissipating Shock Wave               | 4 kV conforming to IEC 60255-5<br>4 kV conforming to IEC 60664-1<br>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.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

### Well-being performance



Rohs Exemption Information
 Yes

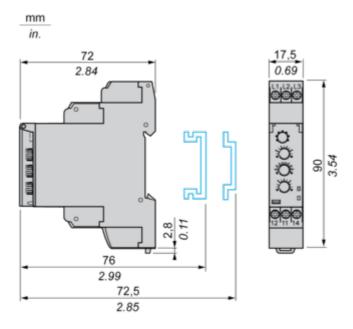
### **Certifications & Standards**

| 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                                    |

**Dimensions Drawings** 

#### Multifunction 3-Phase Supply Control Relays

#### **Dimensions and Mounting**

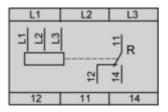


### **Product datasheet**

Connections and Schema

#### Multifunction 3-Phase Supply Control Relays

#### Wiring Diagram

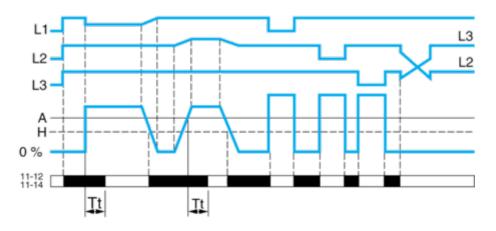


### **Product datasheet**

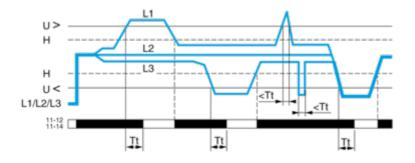
**Technical Description** 

**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)

 ${\bf H}$  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.