

REPORT

70 Series



finder[®]
SWITCH TO THE FUTURE



Electronic voltage monitoring relay for three-phase applications

Type 70.42

Multifunctional type, providing the flexibility of monitoring Undervoltage, Overvoltage, Window Mode, Phase rotation, Phase loss, Asymmetry and Neutral loss.

Approvals (according to type)





Features

- 2 CO relay output, 8 A
- Positive safety logic - Make output contact opens if the relay detects an error
- All functions and values can be easily adjusted by the selector and trimmer on front face
- "Blade + cross" – both flat blade and cross head screw drivers can be used to adjust the regulators and the function selector
- Colored LEDs for clear & immediate visual indication
- Modular housing, 35 mm wide
- 35 mm rail (EN 60715) mount

Voltage monitoring relays

| Type | 70.11 | 70.31 | 70.41 | 70.42 |
|--|---|---|--|---|
| |  |  |  |  |
| Nominal system voltage V AC (50/60 Hz) | Single-phase 220...240 V AC | Three-phase 380...415 V AC | Three-phase 380...415 V AC | Three-phase 380...415 V AC |
| Voltage detection level range | 170...270 V | 300...480 V | 300...480 V | 300...480 V |
| Neutral | — | without Neutro | with/without Neutral | with Neutral |
| Contact configuration | 1 CO (SPDT) | 1 CO (SPDT) | 1 CO (SPDT) | 1 CO (DPDT) |
| Voltage fault memory | selectable | selectable | — | selectable |
| Trip delay time | (0.5...60 s) adjustable | (0.5...60 s) adjustable | (0.5...60 s) adjustable | (0.5...60 s) adjustable |
| Dimension (wide, deep) | 17.5 x 60 mm | 35 x 60 mm | 35 x 60 mm | 35 x 60 mm |
| Function | Undervoltage | Undervoltage | — | Undervoltage |
| | Overvoltage | Overvoltage | — | Overvoltage |
| | Window mode | Window mode | Window mode | Window mode |
| | — | Phase loss | Phase loss | Phase loss |
| | — | Phase rotation | Phase rotation | Phase rotation |
| | — | — | Asymmetry | Asymmetry |
| — | — | Neutral loss | Neutral loss | |

Phase failure relays

| Type | 70.61 | 70.62 |
|--|---|---|
| |  |  |
| Nominal system voltage V AC (50/60 Hz) | Three-phase 208...480 V AC | Three-phase 208...480 V AC |
| Voltage detection level range | — | — |
| Neutral | — | — |
| Contact configuration | 1 CO (SPDT) | 2 CO (DPDT) |
| Voltage fault memory | — | — |
| Trip delay time | 0.5 s fixed | 0.5 s fixed |
| Dimension (wide, deep) | 17.5 x 60 mm | 22.5 x 100 mm |
| Function | Phase loss | Phase loss |
| | Phase rotation | Phase rotation |