SSU31

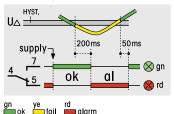
11 pin plug-in phase sequence monitoring relay according to IEC 67-I-18a



Type: SSU31/... V

1 change over alarm contact 6 A 250V

Monitoring function



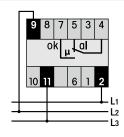
The SSU31 serves as a phase-sequence, three-phase undervoltage and phase failure monitor.

The monitoring function helps to ensure the correct rotation direction of pumps, motors and conveyors in mobile devices with connection to different power outlets.

The defined undervoltage and phase failure protects against malfunction and damage caused by overheating.

2 kVrms 1 minute (basic insulation)

Connection diagram



Measuring circuit data

208 V 400 V Nominal delta connection mains voltage Under voltage threshold \leq 166 V \pm 5 % $\leq 320~V~\pm~5~\%$ 5 V 10 V Hysteresis Phase sequence L1-L2-L3 L1-L2-L3 Phase loss One or several One or several

Time data

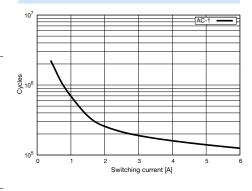
Alarm delay for phase sequence 30 ms / +0 % ... -25 % Alarm delay for phase loss 150 - 250 ms Alarm delay for under voltage 150 - 250 ms Reset time 50 ms

Contacts

Type / Material 1 CO, micro disconnection /AgNi

Rated operational current 6 A Max. inrush current (10 ms) 30 A 250 V Max. switching voltage Max. AC load AC-1 (Fig.1) 1500 VA Max. DC load DC-1, 30 V / 250 V (Fig.2) 180 W / 75 W Recommended min. contact load 10 mA / 12 V

Fig.1 AC voltage endurance

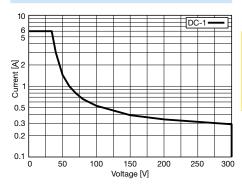


Power supply data

Nominal delta connection mains voltage 208 V 400 V Operating voltage range 176 ... 235 V 340 ... 460 V Power consumption 1.5 W 1.5 W ≤ 25 mA \leq 25 mA 45 ... 65 Hz 45 ... 65 Hz

Input current Frequency range Insulation

Fig. 2 DC load limit curve



General specifications

-40 ... +85 °C / -25 ...+60 °C Ambient temperature storage /operation Mechanical life of contacts 30 x 10⁶ operations Ingress protection degree IP 40 when plugged in Weight 300 g

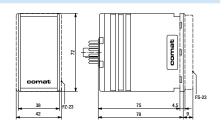
Test voltage between contacts and supply

AC 208 50 / 60Hz SSU31/AC208V AC 400 50 / 60Hz SSU31/AC400V

Standard types

Accessories S-3B Socket: HF-24 Retention clip: Front panel mounting set: **FZ-23**

Dimensions [mm]



Technical approvals, conformities

EN 60947



