Product Description

Discontinued Product

Voltage monitor ASW303 (3-wire)

Description

Voltage monitor ASW303 is applied for monitoring the voltage of alternating or three-phase current networks. The switching points undervoltage and overvoltage are separately set and work on separate output relays. The output relay is picked up if actual value of the measured voltage is over the set limit value. For this it needs only one value of L1, L2 or L3 to activate the corresponding output relay. This means, that the pass over of only one phase gives a monitoring output signal.

The measurement is effected on the basis of outer conductor versus internal N. If only one limit value shall be monitored, the other potentiometer will be set to the limit stop.

Function Description

The functional circuit undervoltage with adjustable potentiometer set to 80% to 120%
Display "Voltage > Set-point Value"
Output contact, 1 change-over contact

Functional circuit overvoltage with adjustable potentiometer 80% to 120%
Display "Voltage > Set-point Value"
Output contacts, 1 change-over contact

Technical Data

Typ Frequency monitor ASW303
Construction Plastic housing on 35mm hat rail as per DIN EN 50022
Material of housing Bayblend FR 1439/0240 modified ABS with burning protection UL 94 VO
Dimension, Weight 55x68x110mm (WxHxD), ca. 0,2 kg
Rated Voltage 400V (L-L), 3-wire connection, other voltages on request
Rated Frequency 50 / 60 Hz
Control Range +/- 20%
Switching Duration Appr. 250 ms (Jump DU=10%)
Hysteresis of switch over 0,5%
Repeat Accuracy 1%
Power Consumption 2,5 VA from measuring signal
On Period 100 %
Terminal Load 5A/250VAC, 5A/30VDC, 0,015 Ohm contact resistance, 10^5 life time
Voltage Protection 3000V (coil-contact), 1000V (open contact)
Connection Terminals For wire connection up to 2,5 mm², potentialfree input terminal
Type of Protection Housing IP 40, terminals IP 20 (bzw. VDE 0106T100/VBG4)
Operating Temp. Range -10 °C bis +55°C, 95% Humidity
Potential Separation EN 60 742 (safety transformers)
General Regulations EN 50 178 (electrical units in power current installation)
Noise suppressions EN 55 022/B
EMV EN 61000 und EN V 50 140
Installation Position Any position
Maintenance Free of maintenance