G4UF900V01 230V AC

Manufacturer data sheet: V1.067

Monitoring relay - voltage monitoring 1-phase

Status: Available Data sheet created: 01.07.2025

Item Number: 2394505 - **Serie:** Gamma - **EAN:** 9008662005884



- Monitoring relays GAMMA series
- DC voltage monitoring 1-phase
- Undervoltage monitoring
- Measuring voltages 900V DC
- Supply voltage 230V AC
- 1 changeover contact
- width 45mm
- Industrial design

Description

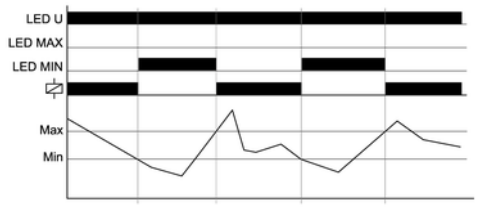
D.c. undervoltage monitoring in 1-phase mains with fixed thresholds and fixed hysteresis.

General information

Short description	Voltage monitoring 1-phase, 900V DC, 1 changeover contact, 230V AC
Item Number	2394505
EAN	9008662005884
Main category	Monitoring Relays
Series	Gamma
Type	G4UF900V01 230V AC
Design	Industrial design
Supply	230V AC
Dimensions	45 x 90 x 108 mm

Functions and measurands

Amount of functions 1



Undervoltage monitoring (UNDER)

When the supply voltage U is applied, the output relay R switches into on-position, if the measured voltage is beyond the Min-value. When the measured voltage falls below the Min-value, the output relay R switches into off-position. The output relay R switches into on-position again, if the voltage exceeds the Max-value.

Indicators

Supply/time lapse 1	Green LED U ON: Supply voltage applied
Relay state	Yellow LED ON/OFF: output relay position
Error / monitoring function	Red LED ON/OFF: Display error for corresponding threshold

Mechanical design

Housing material	made of self-extinguishing plastic
Housing - protection degree	IP40
Mounting	top hat rail TH 35 7,5-15 according to IEC 60715:2017 / EN 60715:2017
Terminals/connections	Touch-proof clamping yoke terminals according to DGUV 3 (Screwdriver PZ1 required)
Terminals - protection degree	IP20
Mounting position	any
Max. Tightening Torque	1 Nm
Terminal capacity	• 1 x 0.5 to 2.5mm² with/without ferrule • 1 x 4mm² without ferrule • 2 x 0.5 to 1.5mm² with/without ferrules • 2 x 2.5mm² flexible without ferrules

Supply circuit

Terminals/connections	A1-A2 (galvanically seperated)
Supply voltage a.c.	230 V
Supply voltage tolerance a.c.	-15% ... +15%
Rated frequency [Hz]	a.c. 50 ... 60 Hz
Rated consumption a.c.	1,5 W / 2 VA
Duty cycle	100%
Recovery time	500 ms
Drop-out voltage	>30% the supply voltage
Overvoltage category	II (IEC 60664-1)
Rated surge voltage	4 kV
Rated impulse withstand voltage	250 V a.c.

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Output curcuit

Type	Relay
Contact 1	1 change over contact
Terminals 1	15-16-18
Rated voltage	250 V a.c.
conditional short-circuit current	1 kA
Fuse Protection	5 A quick
Mechanical life	15 x 10^6 Switching cycles
Electrical life	100 x 10^3 Switching cycles (1000 VA)
Utilization categorie	AC 15
Switching frequency	max. 60/min at 100 VA resistive load
Switching frequency 2	max. 6/min at 1000 VA resistive load (IEC 60947-5-1)
Rated surge voltage	4 kV
Overvoltage category	III (IEC 60664-1)

Measuring circuit

Measurand	Voltage - one phase
Fusing	max. 20 A (UL 508)
Measuring range	900 V d.c.
Terminals/connections	E(-)-F(+)
Overload capacity	1000 V d.c.
Input resistance	2 MΩ
Switching threshold minimum	250 V d.c.
Switching threshold maximum	400 V d.c.
Rated surge voltage	6 kV
Rated impulse withstand voltage	1000 V d.c.
Overvoltage category	II (IEC 60664-1)

Accuracy

Base accuracy	≤3 % (from full scale)
Repetition accuracy	≤1 %
Temperature influence	≤0.05 % / °C

Ambient conditions and general specifications

Ambient temperature IEC	-25 ... +55°C (IEC 60068-1)
Ambient temperature UL	-25 ... +40°C (UL 508)
Storage temperature	-25 ... +70 °C
Transport temperature	-25 ... +70 °C
Relative humidity	15% ... 85% (IEC 60721-3-3 class 3K3)
Vibration resistance	10 ... 55 Hz 0.35 mm (IEC 60068-2-6)
Shock resistance	15 g 11 ms (IEC 60068-2-27)
Pollution degree	3 (IEC 60664-1)
Installation altitude	Up to 2000 m above sea level

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Logistics

Minimum Quantity	1
Tariff Number	85364900
EAN	9008662005884
Country of Origin	AT
Product Weight (g)	219

Available declarations / conformities

EAC	✓
CE	✓
UL	Open document
c(UL)	Open document
REACH	Open document
WEEE	Open document
TSCA	Open document
RoHs	Open document
CMRT	Open document

CAD Files

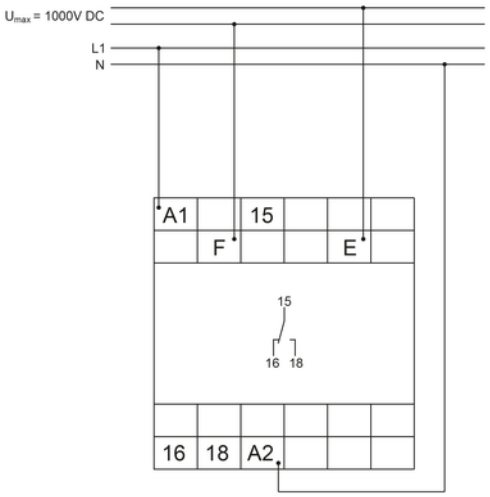
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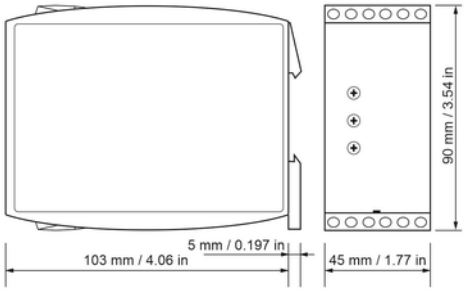
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Media & drawings











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Changes and errors excepted