E1YF400VT01 0.85

Monitoring relay - voltage monitoring 3-phase

Status: Available Data sheet created: 01.07.2025

Item Number: 1340406 - **Serie:** Enya - **EAN:** 9008662004870



- Monitoring relays series ENYA
- Voltage monitoring 3-phase
- Undervoltage monitoring
- Measuring voltage = supply voltage
- Switching threshold fixed U x 0,85
- Supply voltage 3x 400/230V AC
- Voltage monitoring in accordance with VDE 0108-100 and VDE 0100-718
- 3 LED for phase indication
- Test - function
- 1 changeover contact
- width 17.5mm
- Installation type

Description

Undervoltage monitoring in 3- & 1-phase mains (in accordance with VDE 0108-100 and VDE 0100-718) (each phase against the neutral wire) with fixed or variable threshold voltage US and fixed hysteresis.

General information

Short description	Voltage monitoring 3-phase against N,fixed switching threshold,opt.testf., 1 changeover contact
Item Number	1340406
EAN	9008662004870
Main category	Monitoring Relays
Series	Enya
Type	E1YF400VT01 0.85
Design	Installation design
Supply	400V AC
Dimensions	17.5 x 87 x 65 mm

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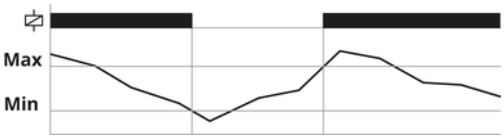
Functions and measurands

Amount of functions 2



Phase failure (Pha)

As soon as one of the three phases fails, the output relay R pulls in and drops out (yellow LED does not light up). For safe detection of phase failures, the asymmetry function should be activated. It is recommended to connect the neutral conductor of the monitoring relay as soon as loads in the system use the neutral conductor connection.



Under (Under)

If the measured value falls below the min value, the output relay drops out. The output relay picks up again as soon as the value exceeds the max value.

Time ranges

Number Of Areas	1	
	Setting range	
Time ranges	Start-up delay (Start)	-
	Shutter delay	fixed, approx. 200 ms

Indicators

Supply/time lapse 1	Green LED L1 ON/OFF: indication of supply voltage L1-N
Supply/time lapse 2	Green LED L2 ON/OFF: indication of supply voltage L2-N
Supply/time lapse 3	Green LED L3 ON/OFF: indication of supply voltage L3-N
Relay state	Yellow LED ON/OFF: output relay position

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 wire end ferrule • 2 x 0.5 to 1.5mm² with/without end sleeves • 2 x 2.5mm² flexible without ferrules

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Supply circuit

Terminals/connections	N-L1-L2-L3
Supply voltage a.c.	3N~400/230V in accord. with VDE 0108
Supply voltage tolerance a.c.	-30% ... +10% Un
Rated frequency [Hz]	a.c. 48 ... 63 Hz
Rated consumption a.c.	0,6 W / 5 VA
Duty cycle	100%
Recovery time	500 ms
Drop-out voltage	defined by measuring function (see measuring circuit)
Overvoltage category	III (IEC 60664-1)
Rated surge voltage	4 kV

Output curcuit

Type	Relay
Contact 1	1 change over contact
Terminals 1	11-12-14
Rated voltage	250 V a.c.
Switching Capacity 1	1250VA (5A / 250V)
Fuse Protection	5 A quick
Mechanical life	15 x 10^6 Switching cycles
Electrical life	100 x 10^3 Switching cycles (1000VA)
Switching frequency	max. 6/min bei 1000VA (in accordance with IEC 60947-5-1)
Rated surge voltage	4 kV
Overvoltage category	III (nach IEC 60664-1)

Measuring circuit

Measurand	Current - three phase
Measuring range	(= supply voltage)
Terminals/connections	N-L1-L2-L3
Overload capacity	determined by tolerance specified for supply voltage
Frequency - sinusoidal	48 ... 63 Hz
Switching threshold minimum	fix 195,5V (L-N)
Hysteresis	approx. 5%
Rated surge voltage	4kV
Overvoltage category	III (nach IEC 60664-1)

Accuracy

Base accuracy	≤5 %
Repetition accuracy	≤2 %
Temperature influence	≤0.05 % / °C

Ambient conditions and general specifications

Ambient temperature IEC	-25 ... +55°C
Storage temperature	-25 ... +70 °C
Transport temperature	-25 ... +70 °C
Relative humidity	15% ... 85% (in accordance with IEC 60721-3-3 class 3K3)
Pollution degree	2, pollution level can be increased by installation in suitable enclosures (according to IEC 60664-1)

Logistics

Minimum Quantity	1
Tariff Number	85364900
EAN	9008662004870
Country of Origin	AT
Product Weight (g)	67

Available declarations / conformities

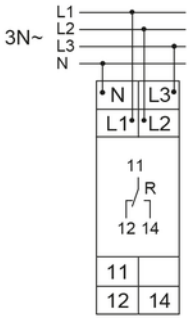
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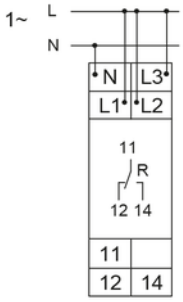
CAD Files

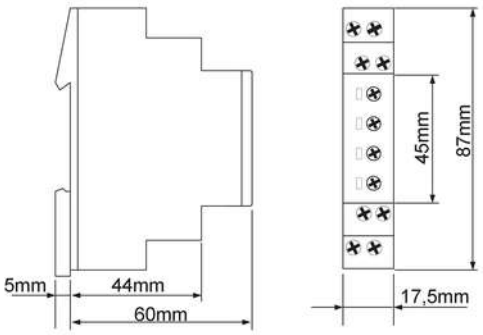
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Media & drawings









Dimensions

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Changes and errors excepted