E1YF400V01 0.70

Manufacturer data sheet: V1.075

Monitoring relay - voltage monitoring 3-phase

Status: Available Data sheet created: 01.07.2025

Item Number: 1340410 - **Serie:** Enya - **EAN:** 9008662006140



- Monitoring relays ENYA series
- Voltage monitoring 3- & 1-phase
- Voltage monitoring in accordance with VDE 0108-100 & VDE 0100-718
- Undervoltage monitoring
- measuring range 230/400V AC
- Measuring voltage = supply voltage
- 1 changeover contact
- width 17.5mm
- Installation type

Description

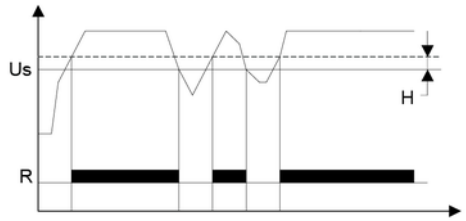
Undervoltage monitoring in 3- & 1-phase mains (in accordance with VDE 0108-100 and VDE 0100-718) (each phase against the neutral wire) with fixed or variable threshold voltage US and fixed hysteresis.

General information

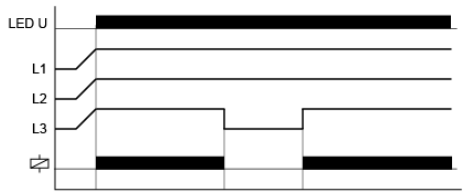
Short description	Voltage monitoring 3-phase against N, fixed switching threshold, 1 changeover contact
Item Number	1340410
EAN	9008662006140
Main category	Monitoring Relays
Series	Enya
Type	E1YF400V01 0.70
Design	Installation design
Supply	400V AC
Dimensions	17.5 x 87 x 65 mm

Functions and measurands

Amount of functions 2



Undervoltage monitoring (UNDER)
The output relay R switches into on-position (yellow LED illuminated), when the measuring voltage of all connected phases exceeds the threshold US by more than the fixed hysteresis. When the voltage of one of the connected phases (L1, L2 or L3) falls below the fixed threshold (green LED L1, L2 or L3 illuminated), the output relay R switches into offposition again (yellow LED not illuminated).



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.

Time ranges

Number Of Areas	1	
Time ranges	**Setting range**	
	Start-up delay (Start)	-
	Shutter delay	fix, ca. 200 ms

Indicators

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

Supply circuit

Supply	(=measurement voltage)
Terminals/connections	N-L1-L2-L3
Supply voltage a.c.	3(N)~400/230V
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	1250 VA (5 A / 250 V a.c.)
Fuse Protection	5 A quick
Mechanical life	15 x 10^6 Switching cycles
Electrical life	100 x 10^3 Switching cycles (1000 VA)
Switching frequency	max 6/min at 1000 VA (according to IEC 60947-5-1)
Rated surge voltage	4 kV
Overvoltage category	III (IEC 60664-1)

Measuring circuit

Measurand	Voltage - one and 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	fixed 161 V (L-N)
Hysteresis	5%
Rated surge voltage	4 kV
Rated impulse withstand voltage	480 V
Overvoltage category	III (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	9008662006140
Country of Origin	AT
Product Weight (g)	64

Available declarations / conformities

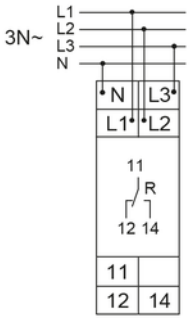
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CE	✓
REACH	Open document
WEEE	Open document
TSCA	Open document
RoHs	Open document
CMRT	Open document

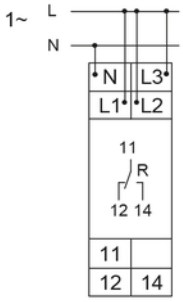
CAD Files

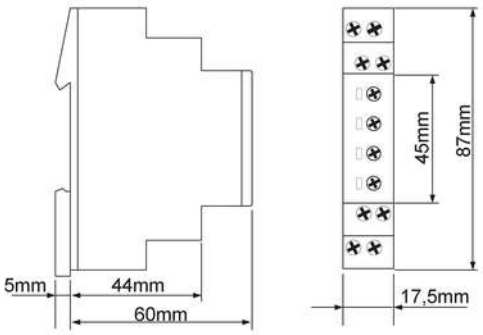
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Media & drawings









Dimensions

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Changes and errors excepted