



Monitoring relay- voltage monitoring 3-phase

Status: **Available** Data sheet created: **01.07.2025**

Item Number: 1341404 - Serie: Enya - EAN: 9008662005785



- ✓ Monitoring relay series ENYA
- ✓ Undervoltage monitoring 3-phase
- ✓ Measuring voltage = supply voltage
- ✓ Switching threshold fixed $U \times 0,85$
- ✓ Switch-on delay fixed 1 minute
- ✓ Supply voltage 3x 400/230V AC
- ✓ Voltage in accordance with VDE 0108-100 & VDE 0100-718
- ✓ 2 changeover contacts
- ✓ width 35mm
- ✓ 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 N) with fixed adjustable threshold, fixed adjustable hysteresis and fixed adjustable ON-Delay of one minute.

General information

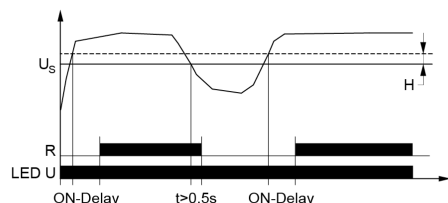
Short description	Voltage monitoring 3-phase against N n.VDE 0108-100+VDE0100-718,2 W.
Item Number	1341404
EAN	9008662005785
Main category	Monitoring Relays
Series	Enya
Type	E3YF400VE20 0.85
Design	Installation design
Supply	400V AC
Dimensions	35 x 87 x 65 mm



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 after the set interval of the tripping delay (ON-Delay) has expired and if the measured voltage off all connected phases (L1, L2 and L3) exceeds the fixed threshold U_s by more than the hysteresis H . When the voltage of one of the connected phases (L1, L2 or L3) falls below the fixed threshold, the output relay R switches into off-position. As soon as the measured voltage exceeds the threshold U_s by more than the hysteresis H , the output relay R switches into on-position after the set interval of the tripping delay (ON-Delay) has expired.

Time ranges

Number Of Areas

1

Time ranges

Setting range

Switch-on delay (ON-Delay)

fix, 1 min

Indicators

Supply/time lapse 1

Green LED U ON: Supply voltage applied

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 DGV 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

(= measured voltage)

Terminals/connections

N-L1-L2-L3

Supply voltage a.c.

3(N)-400/230V (VDE 0108-100 & VDE 0100-718)

Supply voltage tolerance a.c.

-30% ... +30% U_n

Rated frequency [Hz]

a.c. 48 ... 63 Hz

Rated consumption a.c.

1,2 W / 11 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

6 kV



Output circuit

Type	Relay
Contact 1	1 change over contact
Terminals 1	15-16-18
Contacts 2	1 change over contact
Terminals/connections 2	25-26-28
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 (1000 VA)
Switching frequency	max. 6/min at 1000VA resistive load (in accordance with IEC 60947-5-1)
Rated surge voltage	6 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)
Switching threshold asymmetrical	approx. 5%
Rated surge voltage	6kV
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	9008662005785
Country of Origin	AT
Product Weight (g)	105



Available declarations / conformities

EAC ✓

CE [Open document](#)

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TSCA [Open document](#)

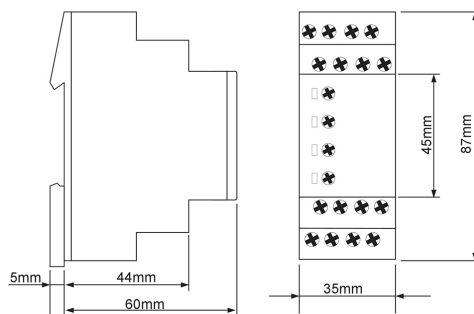
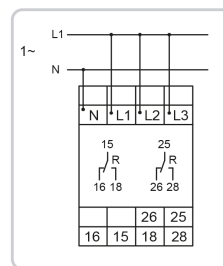
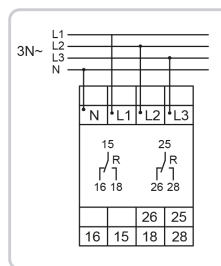
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