



## Monitoring relays - 3-phase voltage monitoring

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

Item Number: 1340403 - Serie: Enya - EAN: 9008662000599



- ✓ Monitoring relays series ENYA
- ✓ Voltage monitoring in 1- and 3-phase networks
- ✓ Undervoltage monitoring
- ✓ supply voltage = measuring voltage
- ✓ Voltage monitoring in accordance with VDE 0108-100 and VDE 0100-718
- ✓ 1 changeover contact
- ✓ width 17,5 mm
- ✓ 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  $U_S$  and fixed hysteresis.

### General information

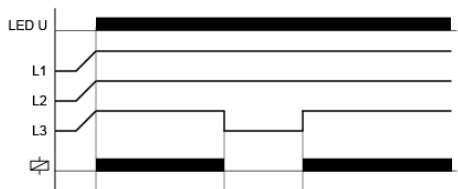
<b>Short description</b>	Voltage monit. 3-ph.against N, fixed switching threshold, 1 changeover contact
<b>Item Number</b>	1340403
<b>EAN</b>	9008662000599
<b>Main category</b>	Monitoring Relays
<b>Series</b>	Enya
<b>Type</b>	E1YU400V01
<b>Design</b>	Installation design
<b>Supply</b>	400V AC
<b>Dimensions</b>	17.5 x 87 x 65 mm



## Functions and measurands

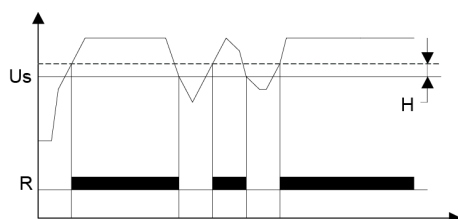
Amount of functions

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.



### 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  $U_S$  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 off-position again (yellow LED not illuminated).

## Time ranges

Number Of Areas

1

### Setting range

Time ranges

Start-up delay (Start)

-

Shutter delay

fix, ca. 200 ms

## Indicators

Supply/time lapse 1

Green LED L1 ON/OFF: Indicator for voltage L1-N

Supply/time lapse 2

Green LED L2 ON/OFF: Indicator for voltage L2-N

Supply/time lapse 3

Green LED L3 ON/OFF: Indicator for 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 2.5mm<sup>2</sup> with/without ferrule
- 1 x 4mm<sup>2</sup> without wire end ferrule
- 2 x 0.5 to 1.5mm<sup>2</sup> with/without end sleeves
- 2 x 2.5mm<sup>2</sup> flexible without ferrules



### Supply circuit

<b>Supply</b>	(= measured voltage)
<b>Terminals/connections</b>	N-L1-L2-L3
<b>Supply voltage a.c.</b>	3(N)-400/230 V
<b>Supply voltage tolerance a.c.</b>	-30% ... +10% Un
<b>Rated frequency [Hz]</b>	a.c. 48 ... 63 Hz
<b>Rated consumption a.c.</b>	0,8 W / 8 VA
<b>Duty cycle</b>	100%
<b>Recovery time</b>	500 ms
<b>Drop-out voltage</b>	defined by measuring function (see measuring circuit)
<b>Overvoltage category</b>	III (IEC 60664-1)
<b>Rated surge voltage</b>	4 kV

### Output circuit

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

### Measuring circuit

<b>Measurand</b>	Current - three phase
<b>Measuring range</b>	(= supply voltage)
<b>Terminals/connections</b>	N-L1-L2-L3
<b>Frequency - sinusoidal</b>	48 ... 63 Hz
<b>Switching threshold minimum</b>	160 V - 240 V (L-N)
<b>Rated surge voltage</b>	4kV
<b>Overvoltage category</b>	III (IEC 60664-1)

### Accuracy

<b>Base accuracy</b>	≤5 % from nominal value
<b>Repetition accuracy</b>	≤2 %
<b>Temperature influence</b>	≤0.05 % / °C

### Ambient conditions and general specifications

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



## Logistics

Minimum Quantity	1
Tariff Number	85364900
EAN	9008662000599
Country of Origin	AT
Product Weight (g)	67

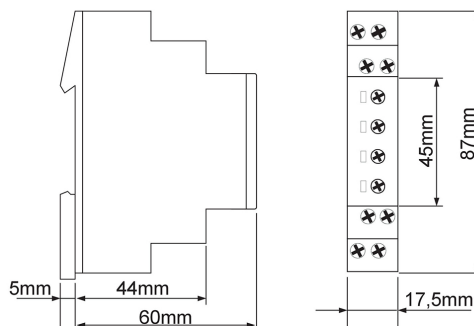
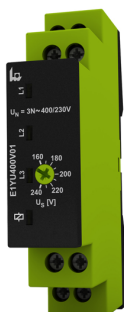
## Available declarations / conformities

EAC	✓
CE	<a href="#">Open document</a>
REACH	<a href="#">Open document</a>
WEEE	<a href="#">Open document</a>
TSCA	<a href="#">Open document</a>
RoHs	<a href="#">Open document</a>
CMRT	<a href="#">Open document</a>

## CAD Files

STEP_E1_en.STEP	<a href="#">Download file</a>
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## Media & drawings



Dimensions

**Tele Haase Steuergeräte Ges.m.b.H**  
Vorarlberger Allee 38  
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Austria

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ONLINE SUPPORT



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Changes and errors excepted