E1YU400V01

Manufacturer data sheet: V1.087

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 US and fixed hysteresis.

General information

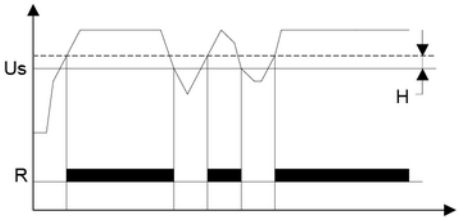
Short description	Voltage monit. 3-ph.against N,fixed switching threshold,1 changeover contact
Item Number	1340403
EAN	9008662000599
Main category	Monitoring Relays
Series	Enya
Type	E1YU400V01
Design	Installation design
Supply	400V AC
Dimensions	17.5 x 87 x 65 mm

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 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).

Time ranges

Number Of Areas	1	
Time ranges	**Setting range**	
	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 2.5mm² 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)~400/230 V
Supply voltage tolerance a.c.	-30% ... +10% Un
Rated frequency [Hz]	a.c. 48 ... 63 Hz
Rated consumption a.c.	0,8 W / 8 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 at 1000VA resistive load (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
Frequency - sinusoidal	48 ... 63 Hz
Switching threshold minimum	160 V - 240 V (L-N)
Rated surge voltage	4kV
Overvoltage category	III (IEC 60664-1)

Accuracy

Base accuracy	≤5 % from nominal value
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	9008662000599
Country of Origin	AT
Product Weight (g)	67

Available declarations / conformities

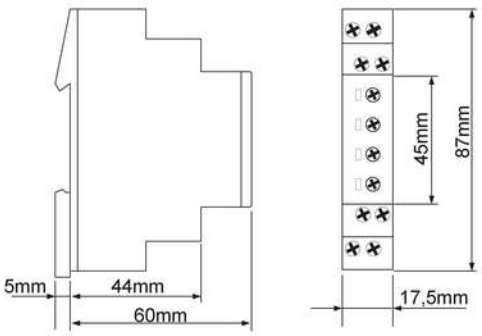
EAC	✓
CE	Open document
REACH	Open document
WEEE	Open document
TSCA	Open document
RoHs	Open document
CMRT	Open document

CAD Files

STEP_E1_en.STEP	Download file

Media & drawings





Dimensions

Tele Haase Steuergeräte Ges.m.b.H
Vorarlberger Allee 38
1230 Vienna
Austria

CALL US +43 / 1 / 614 74 - 0

ONLINE SUPPORT support@tele-haase.at

Changes and errors excepted