E3IF500MAAC20 230V AC

Monitoring relay - current monitoring 1-phase

Status: Available Data sheet created: 01.07.2025

Item Number: 1341201 - **Serie:** Enya - **EAN:** 9008662007666



- Monitoring relay series ENYA
- Current monitoring 1-phase
- Undercurrent monitoring
- Measuring range 16A AC
- Switching threshold adjustable (50 - 500mA)
- Supply voltage 230V AC
- 2 changeover contacts
- width 35mm
- Installation type

Description

a.c. undercurrent monitoring in 1-phase mains, timing for start-up suppression and tripping delay separately adjustable.

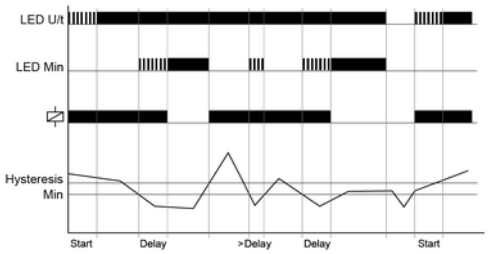
General information

Short description	Current monitoring 1-phase, consumer failure detection, 2 changeover contacts
Item Number	1341201
EAN	9008662007666
Main category	Monitoring Relays
Series	Enya
Type	E3IF500MAAC20 230V AC
Design	Installation design
Supply	230V AC
Dimensions	35 x 87 x 65 mm

E3IF500MAAC20 230V AC

Functions and measurands

Amount of functions 1



Undercurrent monitoring (UNDER)

When the supply voltage U is applied and a start-up suppression time (Start) >0 is adjusted the output relay switches into on position. During this period, changes in the measured current don't affect the state of the output relay R. If no time is adjusted, the output relay switches into the on position if the measured current is beyond the Min-value + hysteresis. When the measured current falls below the Min-value, the output relay R switches into off position after the interval of the tripping delay (Delay) has expired. The output relay R switches into on position again, as soon as the current exceeds the Min-value + hysteresis.

Time ranges

Number Of Areas	2	
Time ranges	**Setting range**	
	Start-up suppression time (Start):	0 ... 20 min
	Tripping delay (Delay):	0 ... 20 min

Indicators

Supply/time lapse 1	Green LED U/t ON: Supply voltage applied
Supply/time lapse 3	Green LED U/t flashes: Start-up bypass sequence indicator
Relay state	Yellow LED ON/OFF: output relay position
Error / monitoring function	Red min LED ON/OFF: Error display
Error / monitoring function	Red min LED flashes: Trip delay indicator

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

E3IF500MAAC20 230V AC

Supply circuit

Terminals/connections	A1-A2
Supply voltage a.c.	230 V
Supply voltage tolerance a.c.	-15% ... +15% Un
Rated frequency [Hz]	a.c. 48 ... 63 Hz
Rated consumption a.c.	0,9 W / 5,2VA
Duty cycle	100%
Recovery time	500 ms
Drop-out voltage	>20% the supply voltage
Overvoltage category	III (IEC 60664-1)
Rated surge voltage	4 kV

Output curcuit

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 a.c.)
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 (IEC 60664-1)

Measuring circuit

Measurand	Current - one phase
Terminals/connections	K-I1(+)
Input resistance	
Frequency - sinusoidal	48 ... 63 Hz
Switching threshold minimum	50mA ... 500mA a.c
Rated surge voltage	4kV
Overvoltage category	III (IEC 60664-1)

Accuracy

Base accuracy	≤5 %
Adjustment 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)

E3IF500MAAC20 230V AC

Logistics

Minimum Quantity	1
Tariff Number	85364900
EAN	9008662007666
Country of Origin	AT
Product Weight (g)	121

Available declarations / conformities

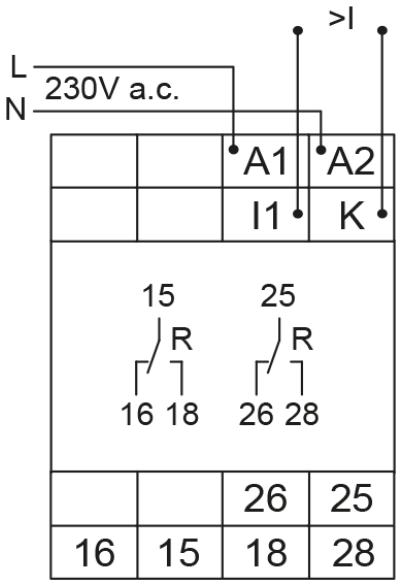
EAC	✓
CE	Open document
REACH	Open document
WEEE	Open document
TSCA	Open document
RoHs	Open document
CMRT	Open document

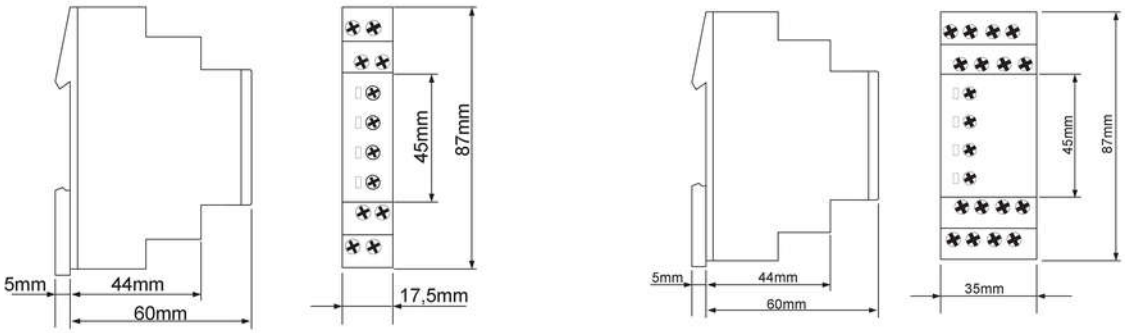
CAD Files

STEP_E3_en.STEP	Download file

Media & drawings







Dimensions

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Changes and errors excepted