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EN

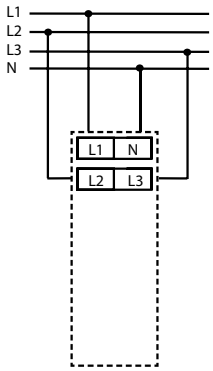
MPS-1

Optical signaling of three-phase main

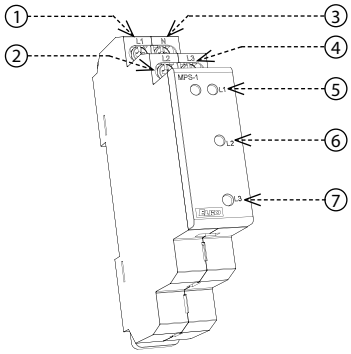
Characteristics

- used for optical signaling of the voltage level in three phases
- each phase features LED signaling broken is divided by color into voltage levels:
  - voltage in tolerance of ± 15 % - green
  - overvoltage - red
  - undervoltage - yellow
  - voltage < 50 V - LED not illuminated
- four-wire connection - L1, L2, L3, N
- monitors phase voltages against neutral wire
- not dependent upon order of phases
- in 1-MODULE design, DIN rail mounting

Connection

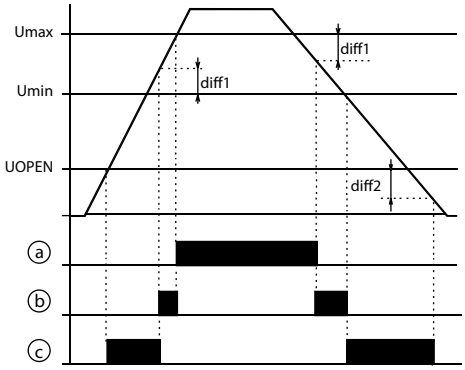


Description



1. Terminal L1
2. Terminal L2
3. Terminal N
4. Terminal L3
5. Indication of L1
6. Indication of L2
7. Indication of L3

Function



a - red LED
b - green LED
c - yellow LED

EN When the supply voltage indicator LEDs are turned ON - their color corresponds to the voltage of each phase. In case when phase voltage drop below 40 V (phase failure), the corresponding LED is not lit.

Technical parameters

MPS-1	
Supply voltage:	AC 3x 400/230 V / 50 - 60 Hz
Supply voltage tolerance:	+20 %, -75 %
Power consumption:	max. 1 VA / 0.5 W
Indication	
LED not illuminated:	0.. 50 V / 45.. 0 V
LED illuminated	
- yellow:	50.. 207 V / 195.5.. 45 V
- green:	207.. 264.5 V / 253.. 195.5 V
- red:	264.5.. 276 V / 276.. 253 V
Other information	
Design:	1-MODUL
Mounting:	DIN rail EN60715
Operating position:	any
Coverage:	panel IP40, terminals IP10
Overvoltage category:	III.
Contamination level:	2
Max. cable size (mm^2):	solid wire max. 2x 2.5 or 1x 4 / with sleeve max. 1x 2.5 or 2x 1.5 (AWG 12)
Working temperature:	-20 °C to 55 °C (-4 °F to 131 °F)
Storage temperature:	-30 °C to 70 °C (-22 °F to 158 °F)
Dimensions:	90 x 17.6 x 64 mm (3.5 x 0.7 x 2.5˝)
Weight:	48 g (1.7 oz.)
Standards:	EN60947-1, EN60947-5-1

Warning

Device is constructed for connection in 3-phase 400 / 230 V main alternating current voltage and must be installed according to norms valid in the state of application. Connection according to the details in this direction. Installation, connection, setting and servicing should be installed by qualified electrician staff only, who has learnt these instruction and functions of the device. This device contains protection against overvoltage peaks and disturbancies in supply. For correct function of the protection of this device there must be suitable protections of higher degree (A, B, C) installed in front of them. According to standards elimination of disturbancies must be ensured. Before installation the main switch must be in position “OFF” and the device should be de-energized. Don´t install the device to sources of excessive electro-magnetic interference. By correct installation ensure ideal air circulation so in case of permanent operation and higher ambient temperature the maximal operating temperature of the device is not exceeded. For installation and setting use screw-driver cca 2 mm. The device is fully-electronic - installation should be carried out according to this fact. Non-problematic function depends also on the way of transportation, storing and handling. In case of any signs of destruction, deformation, non-function or missing part, don´t install and claim at your seller it is possible to dismount the device after its lifetime, recycle, or store in protective dump.