IEG 45-3LA/400/21

Voltage indication module

INTERFACE

Data sheet 104160_en_00

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1 Description

Correct invoicing on the basis of a measuring instrument can only be ensured if the three phases L1, L2, and L3 are available.

IEG 45-3LA/400/21 voltage indication modules are used for monitoring, for example, on a tariff changing board. These modules indicate all three phases with high-accuracy reading, even in case of reverse voltages.

These modules also have a floating PDT contact, thereby offering the convenience of voltage monitoring through remote querying.

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_	IEG 45-3LA/100/21 Art.4rr: 2063235 CH-4rr: 91811 C E DEGENIX	1 ¹¹¹ 4
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1.1 Function

L1 failure:	Glow lamp 1 does not light up, relay drops
L2 failure:	Glow lamp 2 does not light up, relay drops
L3 failure:	Glow lamp 3 does not light up, relay drops
Failure of two phase conductors:	No glow lamps light up.

relay drops



Figure 1 Circuit diagram

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This data sheet is valid for all products listed on the following page:



2 Ordering data

Description	Туре	Order No.	Pcs./Pkt.
Voltage indication module, with relay contact output, SPDT, 400 V AC operating voltage	IEG 45-3LA/400/21	2963268	5

3 Technical data

General data				
Ambient temperature range	-20°C +40°C			
Rated insulation voltage according to EN 50178	300 V			
Pollution degree according to EN 50178	2			
Surge voltage category according to EN 50178	3, basic insulation			
Mounting position	Any			
Installation	Can be aligned without spacing			
Width	45 mm			
Height	47.5 mm			
Length	75 mm			
Connection data				
Conductor cross-section, solid	0.2 mm ² 4 mm ²			
Conductor cross-section, stranded	0.2 mm ² 4 mm ²			
Conductor cross-section, AWG	24 - 12			
Stripping length	8 mm			
Connection method	Screw connection			
Input				
Operating voltage U _N (phase conductor/phase conductor)	400 V AC ±10%			
Operating voltage range	0.93 … 1.1 x U _N (at 20°C)			
Indication range	≥ 100 V AC			
Indication elements	Glow lamp (green cover)			
Current consumption of each light indicator at U _N				
L1	5.3 mA			
L2 L3	5.3 mA 7.9 mA			
	7.9 MA			
Relay output				
Contact type	Single contact, SPDT			
Contact material	AgSnO			
Maximum switching voltage	250 V AC/DC			
Limiting continuous current	6 A			
Output fuse	6.3 A (fast-blow)			
Maximum interrupting rating (ohmic load)				
At 24 V DC	144 W			
At 250 V AC Mechanical service life	1500 VA			
	2 x 10 ⁷ cycles, approximately			
Conformance/approvals				
Conformance	CE-compliant			
Conformance with EMC Directive 2004/108/EC				
Noise immunity according to	EN 61000-6-2			
Noise emission according to	EN 61000-6-4			
Conformance with Low Voltage Directive (LVD) 2006/95/EC				
Electronic equipment according to	EN 50178			

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