

https://www.phoenixcontact.com/in/products/2866064



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Monitoring relay for monitoring 3-phase voltages of 280...520 V AC, undervoltage, window, phase sequence, phase failure, asymmetry, wide range power supply unit, 2 changeover contacts

Product description

Increasingly higher demands are being placed on safety and system availability - across all sectors. Processes are becoming more and more complex, not only in mechanical engineering and the chemical industry, but also in plant and automation technology. Demands on power engineering are also increasing constantly.

Error-free and therefore cost-effective operation can only be achieved through continuous monitoring of important network and system parameters. Electronic monitoring relays in the EMD series are available for a wide range of monitoring tasks to avoid the consequences of errors or to keep them within limits.

The operating states are indicated using colored LEDs, errors that may occur can be sent to a control system via a floating contact or can shut down a part of the system. Some device versions are equipped with startup and response delays in order to briefly tolerate measured values outside the set monitoring range.

Your advantages

- · Adjustable via potentiometer on the front
- · Variable supply voltage range
- · Adjustable asymmetry
- · Adjustable response delay

Commercial data

Item number	2866064
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CK4
Product key	CK4111
Catalog page	Page 252 (C-5-2019)
GTIN	4017918975029
Weight per piece (including packing)	165.8 g
Weight per piece (excluding packing)	164 g
Customs tariff number	85364900
Country of origin	AT



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Technical data

Notes

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EMC note	EMC: class A product, see manufacturer's declaration in the
	download area

Product properties

Product type	Voltage monitoring relay
Operating mode	100% operating factor
Mechanical service life	approx. 2x 10 ⁷ cycles

Data management status

Article revision 03	3
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Insulation characteristics

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

Electrical properties

Service life electrical	2x 10 ⁵ cycles at ohmic load, 1000 VA
Maximum power dissipation for nominal condition	1 W
Mains type	3-phase
Rated insulation voltage	300 V
Rated surge voltage	4 kV

Supply

Supply voltage	230 V AC
	24 V DC
Supply voltage range	24 V AC 240 V AC -15 % +10 %
	24 V DC 240 V DC -20 % +25 %
Nominal power consumption	4.5 VA (1.5 W)

Input data

Input name	Measuring input
Measured value	AC sine (48 Hz 63 Hz)
Protection	≤ 20 A
Nominal input voltage U _N	3 N ~ 400/230 V
Maximum input voltage	3 N ~ 600/346 V
Input resistance of voltage input	1 ΜΩ
Frequency range	48 Hz 400 Hz
Maximum temperature coefficient	< 0.1 %/K
Setting range for response delay	0.1 s 10 s
Min. setting range	-30 % 20 % (From U _N)



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Max. setting range	-20 % 30 % (From U _N)
Min setting range of the voltage threshold value	280 V AC 480 V AC
Max. setting range of the voltage threshold value	320 V AC 520 V AC
Function	Undervoltage
	Window
	Asymmetry
	Phase sequence
	Phase failure
Basic accuracy	± 5 % (of scale end value)
Setting accuracy	≤ 5 % (of scale end value)
Repeat accuracy	≤ 2 %
Asymmetry	5 % 25% / OFF
Recovery time	500 ms

Output data

Switching

Contact switching type	2 floating changeover contacts
Maximum switching voltage	250 V AC (in acc. with IEC 60664-1)
Interrupting rating (ohmic load) max.	750 VA (3 A/250 V AC, module aligned, ≤ 5 mm spacing)
	1250 VA (5 A/250 V AC, module not aligned, ≥ 5 mm spacing)
Output fuse	5 A (fast-blow)

Connection data

Connection method	Screw connection
Stripping length	8 mm
Conductor cross section rigid	0.5 mm² 2.5 mm²
Conductor cross section flexible	0.25 mm² 2.5 mm²
Conductor cross section AWG	20 14

Dimensions

Width	22.5 mm
Height	90 mm
Depth	113 mm

Material specifications

Color	green (RAL 6021)
Housing insulation material	Polyamide PA, self-extinguishing

Environmental and real-life conditions

Ambient conditions

Degree of protection (Housing)	IP40 (Housing)
Degree of protection (Connection terminal blocks)	IP20 (Connection terminal blocks)
Ambient temperature (operation)	-25 °C 55 °C
	-25 °C 40 °C (corresponds to UL 508)



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Ambient temperature (storage/transport)	-25 °C 70 °C
Climatic class	3K3 (in acc. with EN 60721)
Permissible humidity (operation)	15 % 85 %
Approvals	
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EMC data

UL, USA/Canada

Identification

Low Voltage Directive	Conformance with Low Voltage Directive
Noise immunity	EN 61000-6-2
Electromagnetic compatibility	Conformance with EMC directive
Noise emission	EN 61000-6-4

UL/C-UL Listed UL 508

Standards and regulations

Standards/regulations EN 50178	EN 50178
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Mounting

Mounting type	DIN rail mounting
Assembly note	on standard DIN rail NS 35 in accordance with EN 60715
Mounting position	any

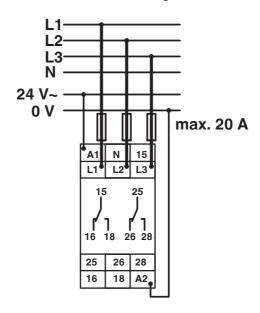
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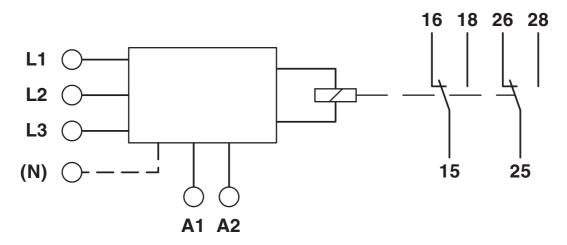


Drawings

Connection diagram



Block diagram

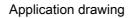


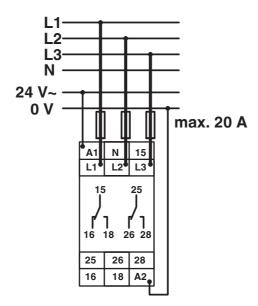
U = 24...240 V AC/DC



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Connection example



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Approvals

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EAC

Approval ID: TR_TS_D_00573_c



EAC

Approval ID: RU*C-DE.*08.B.00010



UL Listed

Approval ID: FILE E 172140



cUL Listed

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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-11.0	27371801
	ECLASS-12.0	27371801
	ECLASS-13.0	27371801
ETIM		
	ETIM 9.0	EC001438
UN:	SPSC	

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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