

https://www.phoenixcontact.com/pc/products/2866077



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Monitoring relay for monitoring phase sequence, phase failure and asymmetry, 342...457 V AC, supply from the measurement voltage, 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

· Variable supply voltage range

Commercial data

Item number	2866077
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DK6631
GTIN	4017918952679
Weight per piece (including packing)	149 g
Weight per piece (excluding packing)	149 g
Customs tariff number	85364900
Country of origin	AT



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Technical data

Product properties

Product type	Phase monitoring relay	
Operating mode	100% operating factor	
Mechanical service life	approx. 2x 10 ⁷ cycles	
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	From the measured voltage
Nominal power consumption	9 VA

Input data

Input name	Measuring input
Measured value	AC sine (48 Hz 63 Hz)
Nominal input voltage U _N	400 V (3 N ~ 400/230 V)
Maximum input voltage	3 N ~ 457/264 V
Input resistance of voltage input	15 kΩ
Frequency range	48 Hz 63 Hz
Setting range for response delay	≤ 350 ms (fixed setting)
Setting range for starting delay	≤ 500 ms (fixed setting)
Min setting range of the voltage threshold value	342 V AC
Max. setting range of the voltage threshold value	457 V AC
Function	Phase sequence
	Phase failure
	Asymmetry
Asymmetry	fixed, approx. 30 %
Recovery time	< 100 ms

Output data

Switching

Contact switching type	2 floating changeover contacts
Maximum switching voltage	250 V AC (in acc. with IEC 60664-1)



Noise emission

Standards/regulations

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Interrupting rating (ohmic load) max.	750 VA (3 A/250 V AC, module aligned, ≤ 5 mm spacing)
interrupting rating (office load) max.	1250 VA (5 A/250 V AC, module not aligned, ≥ 5 mm spacing)
Output fuse	5 A (fast-blow)
	o (last 2.0.1)
nection 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 mm ² 2.5 mm ²
Conductor cross-section AWG	20 14
ensions	
Width	22.5 mm
Height	90 mm
Depth	113 mm
erial specifications	
Color	green (RAL 6021)
Housing insulation material rironmental and real-life conditions	Polyamide PA, self-extinguishing
rironmental and real-life conditions	
ironmental and real-life conditions mbient conditions Degree of protection (Housing)	IP40 (Housing)
rironmental and real-life conditions mbient conditions Degree of protection (Housing) Degree of protection (Connection terminal blocks)	IP40 (Housing) IP20 (Connection terminal blocks)
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EN 61000-6-3



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Standards and regulations

	-	
	Standards/regulations	EN 50178
Мо	Mounting	
	Mounting type	DIN rail mounting
	Assembly note	on standard DIN rail NS 35 in accordance with EN 60715
	Mounting position	any

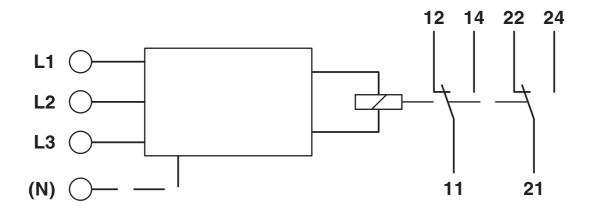
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Drawings

Block diagram





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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/2866077



EAC

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



UL Listed

Approval ID: FILE E 172140



cUL Listed

Approval ID: FILE E 172140



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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-13.0	27371803
	ECLASS-15.0	27371803
ΕT	ТІМ	
	ETIM 9.0	EC001441
UN	NSPSC	

39121100



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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%	
EF3.0 Climate Change		
CO2e kg	3.938 kg CO2e	

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