MACX-MR-PH-690 - Monitoring relay

1336404

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CRA-READY



3-phase voltage monitoring relay, 24 V AC/DC ... 240 V AC/DC wide range power supply, monitoring for phase sequence, phase failure and asymmetry (with adjustable asymmetry and response delay). It can be configured using smart phone app via NFC wireless communication function, 1x2 PDT dry contact outputs, closed circuit principle, auto reset, optional screw connection and plug-in connection.

Commercial data

Item number	1336404
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C443
Product key	DK6611
GTIN	4063151636623
Weight per piece (including packing)	198.5 g
Weight per piece (excluding packing)	195 g
Customs tariff number	85364900
Country of origin	CN

Technical data

Notes

Note on application

Note on application	As things stand now, we are preparing the product so that, as of December 11, 2027, it will comply with the requirements of the EU Cyber Resilience Act (CRA) based on the information currently available regarding the CRA.

Product properties

Product type	Phase monitoring relay
Operating mode	Closed circuit
Mechanical service life	approx. 3x 10^7 cycles

Insulation characteristics

Overvoltage category	III
Pollution degree	3

Electrical properties

Rated impulse withstand voltage	6 kV
Service life electrical	approx. 1x 10^5 cycles, resistive load 2000 V A
Maximum power dissipation for nominal condition	15 W
Mains type	3-phase
Rated insulation voltage	690 V

Electrical isolation

Electrical isolation	300 V

Supply

Supply voltage range	24 V AC/DC ... 240 V AC/DC 15 % ... +10 %
Nominal power consumption	15 VA (1.5 W)
Frequency range	48 Hz ... 400 Hz

Input data

Input name	Measuring input
Measured value	AC sine (48 Hz ... 63 Hz)
Input resistance of voltage input	1 MΩ
Frequency range	48 Hz ... 400 Hz
Maximum temperature coefficient	0.05 %/K
Setting range for response delay	0 s ... 99.9 s
Min setting range of the voltage threshold value	160 V
Max. setting range of the voltage threshold value	690 V
Function	Asymmetry
	Phase sequence
	Phase failure

Basic accuracy	1 %
Repeat accuracy	0.5 %
Asymmetry	2 % ... 30 % / OFF
Voltage influence	0.5 %
Recovery time	200 ms

Output data

Switching

Contact switching type	2 floating changeover contacts
Maximum switching voltage	250 V AC
Interrupting rating (ohmic load) max.	2000 VA (8 A/250 V AC)
Output fuse	10 A (fast-blow)

Connection data

Connection method	Screw connection
Stripping length	10 mm
Conductor cross-section rigid	0.2 mm² ... 2.5 mm²
Conductor cross-section flexible	0.2 mm² ... 2.5 mm²
Conductor cross-section AWG	24 ... 14
Tightening torque	0.5 Nm ... 0.6 Nm (5 lb in ... 7 lb in)

Dimensions

Width	22.5 mm
Height	109 mm
Depth	114 mm

Material specifications

Flammability rating according to UL 94	V0
Housing insulation material	PBT

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP40 (Housing)
	IP20 (Connection terminal blocks)
Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	2000 m
Permissible humidity (operation)	10 % ... 95 %

Approvals

CE

Identification	CE-compliant

UL, USA/Canada

Identification	UL/C-UL Listed UL 508

CCC

Identification	GB/T 14048.5

EMC data

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

Noise emission

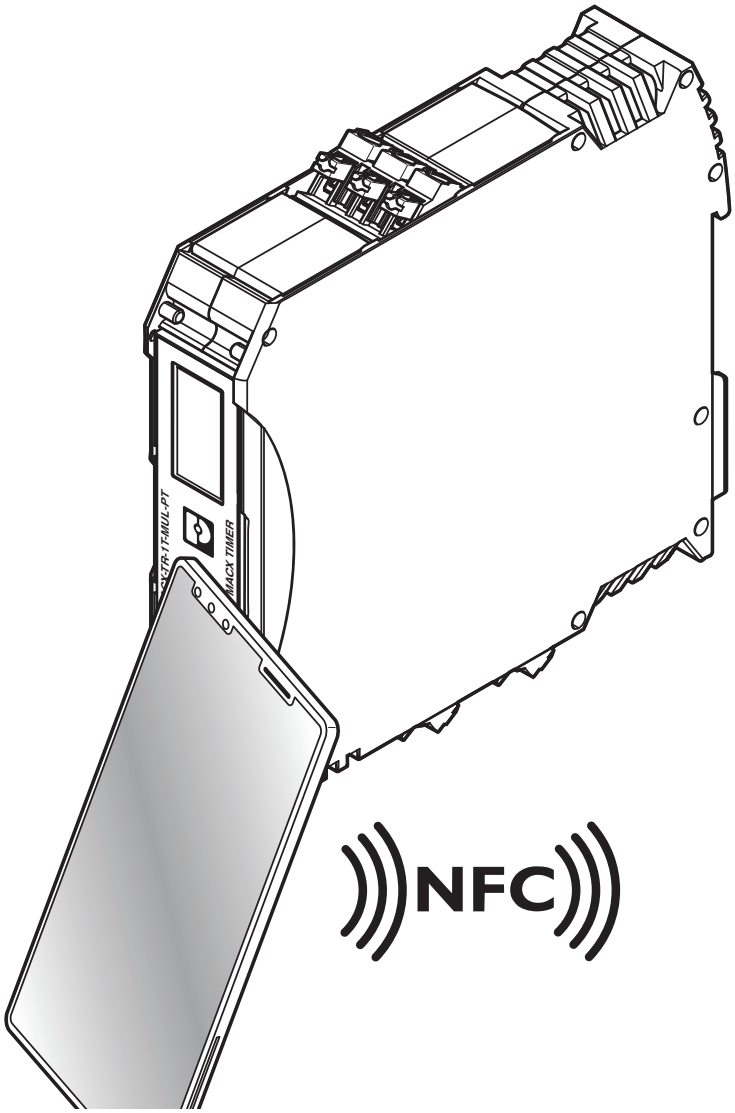
Standards/regulations	EN 61000-6-4

Mounting

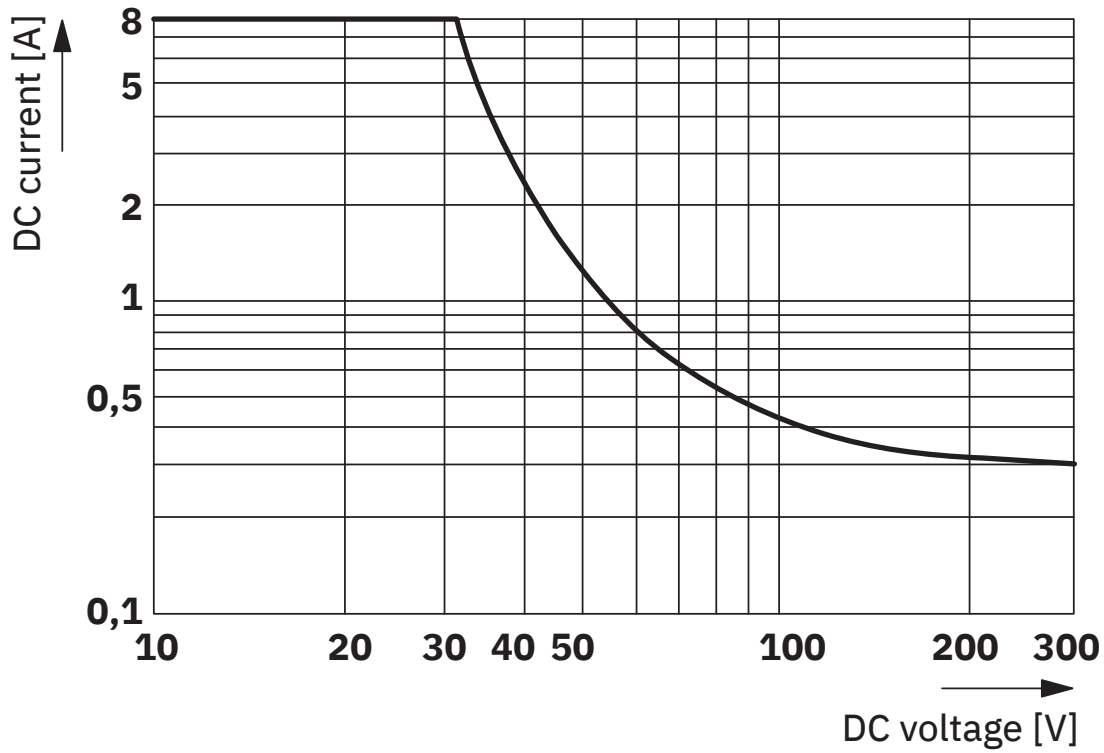
Mounting type	DIN rail mounting
Assembly note	on standard DIN rail NS 35 in accordance with EN 60715
Mounting position	any

Drawings

Schematic diagram

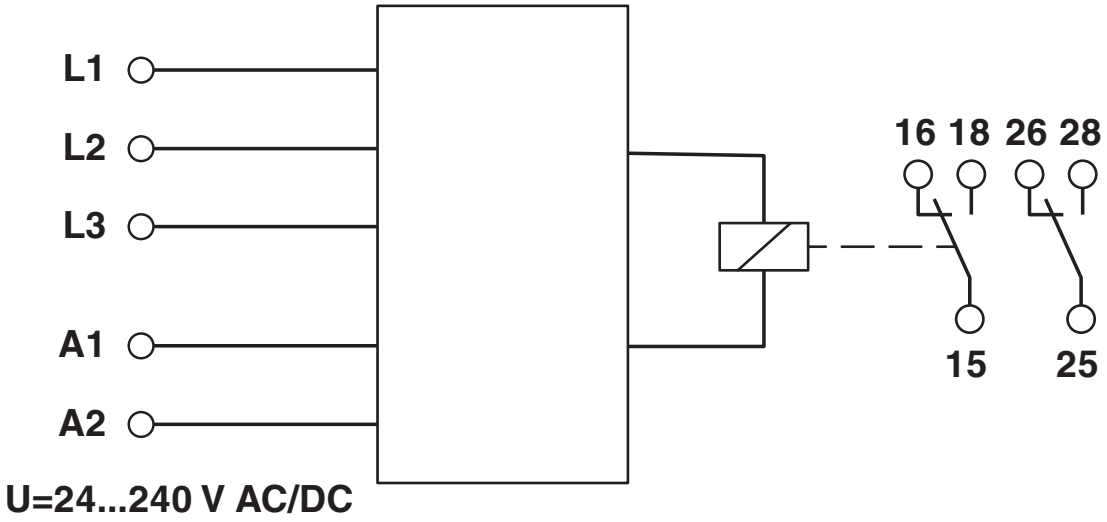


Diagram



Interrupting rating

Block diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1336404

CCC
Approval ID: 2022000303000014

CCC
Approval ID: 2024010303656846

cULus Listed
Approval ID: E172140V4S1

Classifications

ECLASS

ECLASS-13.0	27371803
ECLASS-15.0	27371803

ETIM

ETIM 10.0	EC001441

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	e49904ff-c600-409b-9066-8303ef786aa4

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https://www.phoenixcontact.com

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com