MACX-MR-3V-900-PT - Monitoring relay

1336547

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CRA-READY



3-phase voltage monitoring relay, with overvoltage, undervoltage, window monitoring as well as phase sequence, phase loss failure, asymmetry (adjustable asymmetry) and neutral monitoring functions. 24 V AC/DC … 240 V AC/DC wide range power supply, with adjustable threshold values, response delay, and supporting failure record storage and NFC communication. True RMS value test. Plug-in connection.

Commercial data

Item number	1336547
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C443
Product key	DK6611
GTIN	4063151636579
Weight per piece (including packing)	301.2 g
Weight per piece (excluding packing)	298 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	Voltage monitoring relay
Operating mode	Closed circuit or wire break
Mechanical service life	Approx. 1 x 10^7 cycles

Insulation characteristics: Railway standard

Overvoltage category	III
Pollution degree	3

Electrical properties

Rated impulse withstand voltage	8 kV (Between the measuring circuit and other circuits)
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

Railway standard

Rated insulation voltage	1000 V (Between the measuring circuit and other circuits)
	600 V (Between other circuits)

Electrical isolation

Electrical isolation	300 V

Supply

Supply voltage range	24 V AC ... 240 V AC -15 % ... +10 %
	24 V DC ... 240 V DC -25 % ... +30 %
	24 V ... 240 V AC -10 % ... +10 % (Railway application)
	48 V ... 110 V DC (Railway application)
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	480 V
Max. setting range of the voltage threshold value	900 V
Function	Undervoltage
	Overvoltage
	Window
	Asymmetry
	Phase sequence
	Phase failure
	Neutral conductor break
Basic accuracy	1 %
Repeat accuracy	0.5 %
Asymmetry	5 % ... 25% / OFF
Recovery time	200 ms

Output data

Switching

Contact switching type	2 floating changeover contacts
Contact material	AgSnO
Maximum switching voltage	400 V AC
Interrupting rating (ohmic load) max.	2000 VA (8 A/250 V AC)
Output fuse	8 A (fast-blow)

Connection data

Connection method	Push-in 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

Dimensions

Width	45 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 ... 70 °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

Standards and regulations

Railway standard

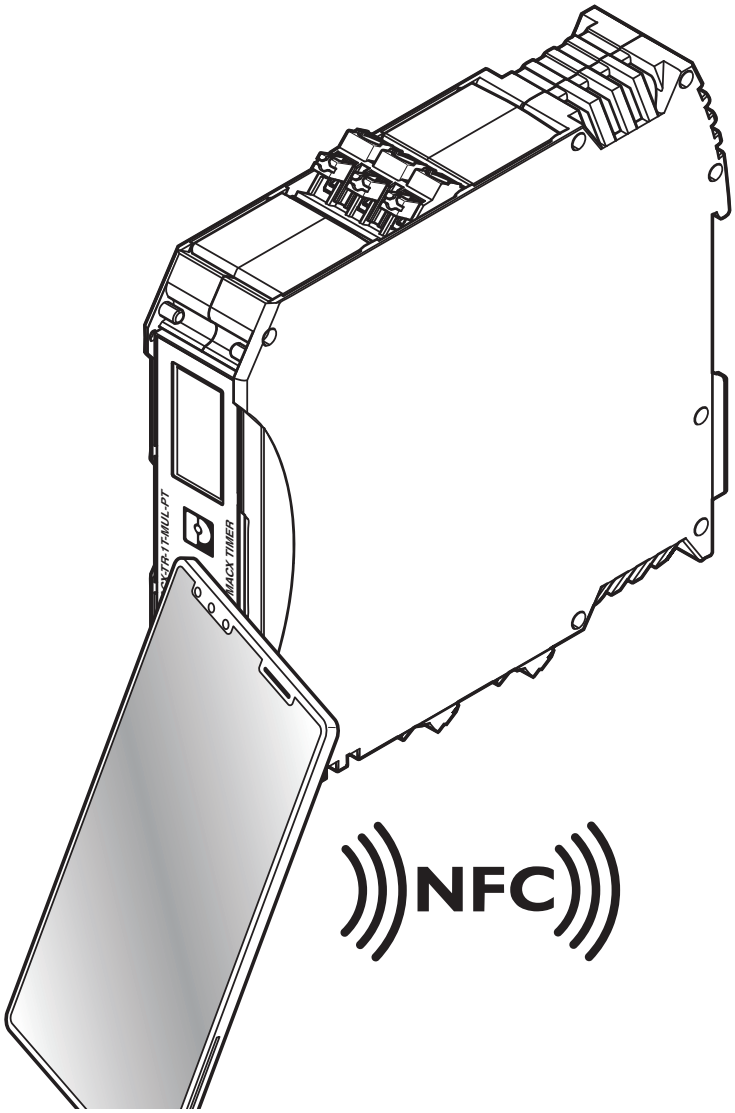
Standard designation	EN 50155, GB/T 25119

Mounting

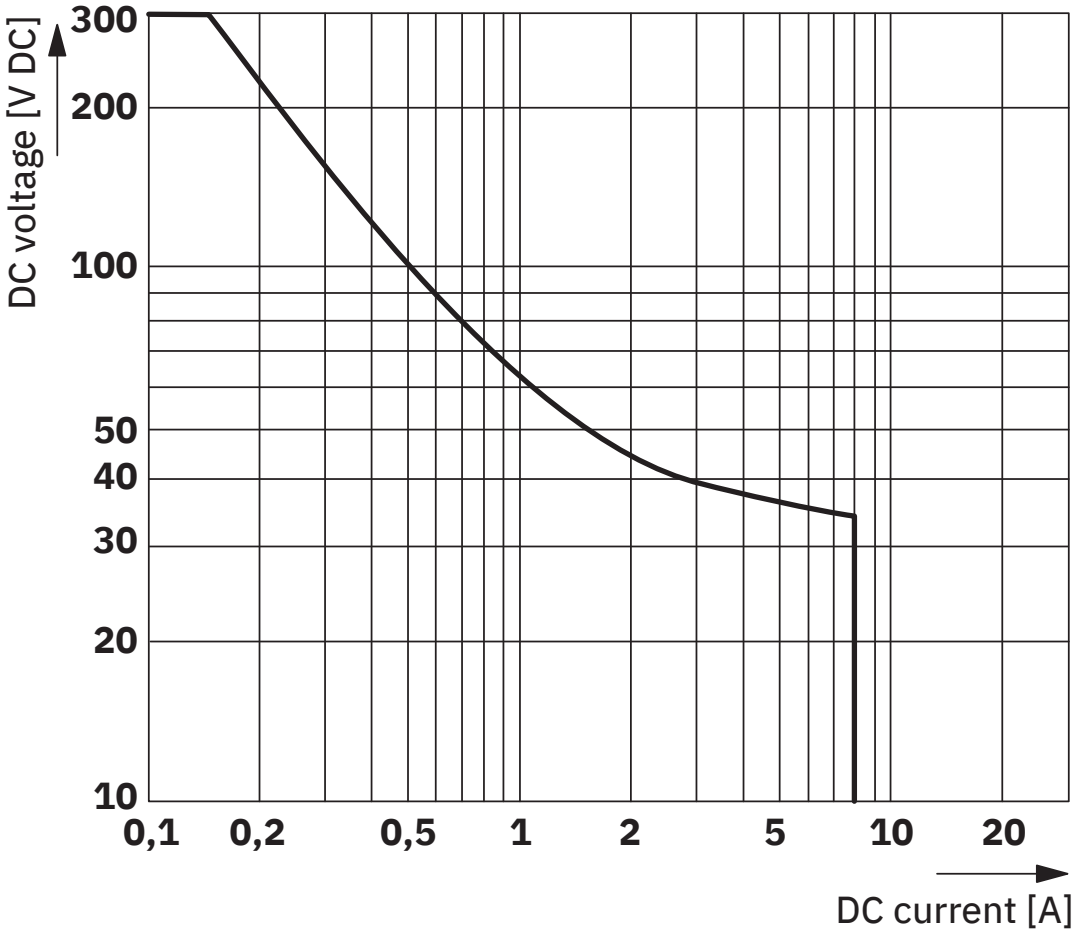
Mounting type	DIN rail mounting
Assembly note	on standard DIN rail NS 35 in accordance with EN 60715
Mounting position	any

Drawings

Schematic diagram

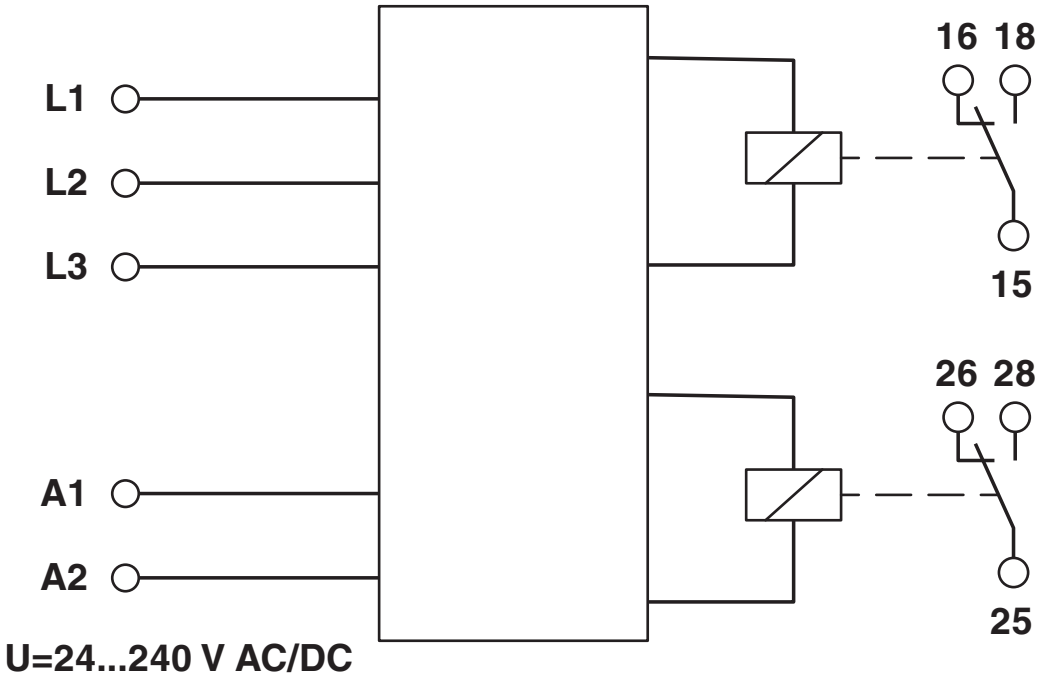


Diagram



Interrupting rating

Block diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1336547

CCC
Approval ID: 2024010303656845

cULus Listed
Approval ID: E172140V4S1

Classifications

ECLASS

ECLASS-13.0	27371801
ECLASS-15.0	27371801

ETIM

ETIM 10.0	EC001438

UNSPSC

UNSPSC 21.0	41113600

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	4ce99bee-4bcb-4835-b70b-60eadda97ebd

EF3.1 Climate Change

CO2e kg	19.215 kg CO2e

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