

https://www.phoenixcontact.com/us/products/1336410



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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.

Commercial data

Item number	1336410
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C443
Product key	CK4711
GTIN	4063151636289
Weight per piece (including packing)	208 g
Weight per piece (excluding packing)	195 g
Customs tariff number	85364900
Country of origin	CN



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Technical data

Product properties

Product type	Voltage monitoring relay
Operating mode	Closed circuit or wire break
Insulation characteristics: Railway standard	
Insulation characteristics: Railway standard Overvoltage category	III

Electrical properties

Rated impulse withstand voltage	6 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	690 V (Between the measuring circuit and other circuits)
	600 V (Between other circuits)

Electrical isolation

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 (Railway application)
	48 V 110 V DC (Railway application)
Nominal power consumption	15 VA (1.5 W)

Input data

Input name	Measuring input
Measured value	AC sine (48 Hz 63 Hz)
Input resistance of voltage input	0.75 ΜΩ
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	Undervoltage
	Overvoltage
	Window
	Asymmetry
	Phase sequence
	Phase failure



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	Neutral conductor break
Basic accuracy	1 %
Repeat accuracy	0.5 %
Voltage influence	0.5 %
Recovery time	200 ms

Output data

Switching

Contact switching type	2 floating changeover contacts
Contact material	AgSnO
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 mm ² 2.5 mm ²
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 70 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Altitude	2000 m
Permissible humidity (operation)	10 % 95 %

Approvals

CE/UKCA

Identification	EN 62311, EN 300 330, EN 301 489-1, EN 301 489-3, EN/IEC
	63000



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UL, USA/Canada

Identification	UL/C-UL Listed UL 508
CCC	
Identification	GB/T 14048.5
Electronic devices in rail vehicles	
Operating temperature class	OT4
Class of extended operating temperature upon activation	ST2
Temperature change class	H1
Interruption of the power supply/supply changeover	S2
	S3/C1
	C2
Hazard levels	HL1
	HL2
	HL3
Protective coating	PC2
Shock (operation)	Category 1
Vibration (operation)	Class B

EMC data

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

Standards and regulations

Railway standard

Standard designation	EN 50155, GB/T 25119
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Mounting

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

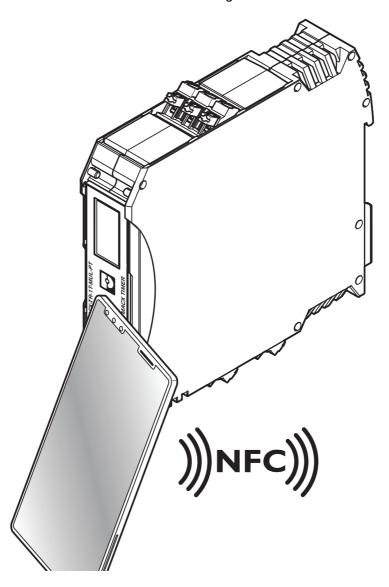


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Drawings

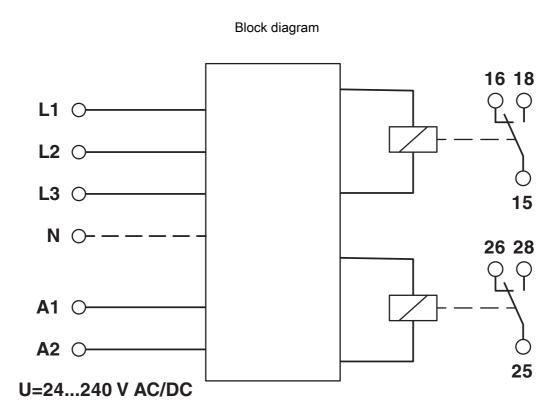
Schematic diagram





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Approvals

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CCC

Approval ID: 2024010303656845



cULus ListedApproval ID: E172140



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Classifications

ECLASS

ECLASS-11.0	27371801
ECLASS-13.0	27371801
ECLASS-12.0	27371801

ETIM

Е	TIM 9.0	EC001438



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-l
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	ed4924d6-7006-4827-8338-00789d25064c

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