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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	CK4
Product key	DK6611
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
nsulation characteristics: Railway standard	
Overvoltage category	III
Pollution degree	3
ectrical properties	
Rated impulse withstand voltage	6 kV (Between the measuring circuit and other circuits)
Service life electrical	approx. 1x 10 <sup>5</sup> 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	
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 (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 <sup>2</sup> 2.5 mm <sup>2</sup>
Conductor cross section flexible	0.2 mm <sup>2</sup> 2.5 mm <sup>2</sup>
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	РВТ

#### 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

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

Mounting position

Railway standard	
Standard designation	EN 50155, GB/T 25119
Mounting	
Assembly note	on standard DIN rail NS 35 in accordance with EN 60715

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### Drawings



Block diagram

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Schematic diagram 0 6 ))NFC



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## Approvals

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**cULus Listed** Approval ID: E172140



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## Classifications

### ECLASS

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

### ETIM

ETIM 9.0	EC001438
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## Environmental product compliance

#### EU RoHS

Yes 7(a), 7(c)-l
7(a), 7(c)-l
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.
Lead(CAS: 7439-92-1)
ed4924d6-7006-4827-8338-00789d25064c

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Accessories

### MACX-BLUETOOTH-NFC - Adapter

1142259 https://www.phoenixcontact.com/in/products/1142259



Bluetooth NFC adapter

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