

ELR 3/ 9-400 - Load relay

2941701

<https://www.phoenixcontact.com/us/products/2941701>

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Electronic load relay, for direct driving of equipment in the 3-phase network, with light indicator and protection circuit, output: 110-440 V AC/3 x 9 A

Your advantages

- High switching frequency
- Noise and wear-free switching up to 500 V AC/9 A
- Protective circuit in input and output
- Status display

Commercial data

Item number	2941701
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C472
Product key	CK7212
Catalog page	Page 194 (IF-2011)
GTIN	4017918101046
Weight per piece (including packing)	745.4 g
Weight per piece (excluding packing)	745.4 g
Customs tariff number	85364900
Country of origin	DE

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Technical data

Product properties

Product type	Solid-state contactor
Operating mode	100% operating factor

Insulation characteristics

Insulation	Basic insulation
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Insulation characteristics: Air clearances and creepage distances between the power circuits

Insulation	Basic insulation
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Electrical properties

Number of phases	3
Mains type	3-phase
Test voltage (Input/output)	2.5 kV (50 Hz, 60 s)
Switching frequency	max. 10 Hz (At $\cos \varphi = 0.5$)

Input data

Control

Input name	Control input right/left
Rated actuating voltage U_C	24 V DC
Triggering voltage range	19.2 V DC ... 28.8 V DC
Voltage range with reference to U_C	0.8 ... 1.2 0.8 ... 1.2
Rated actuating current I_C	16 mA
Reaction time in normal load operation	20 ms 20 ms
Protective circuit	Reverse polarity protection; Polarity protection diode Surge protection
Status display	Yellow LED
Transmission frequency	1 Hz (At $\cos \varphi = 0.5$)

Output data

AC output

Rated operating voltage U_e	400 V AC
Operating voltage range	110 V AC ... 440 V AC
Peak offstate voltage	800 V
Mains frequency	50 Hz 60 Hz
Load current range	150 mA ... 9 A (see to derating)
Leakage current	typ. 7 mA
Residual voltage	typ. 1.5 V

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Surge current	230 A (tp = 10 ms, at 25 °C)
Protective circuit	RC element; RC element
	Surge protection
Surge voltage protection	> 750 V

Connection data

Control circuits

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.2 mm ² ... 6 mm ²
Conductor cross section flexible	0.2 mm ² ... 4 mm ²
Conductor cross section AWG	24 ... 10

Load circuit

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.2 mm ² ... 6 mm ²
Conductor cross section flexible	0.2 mm ² ... 4 mm ²
Conductor cross section AWG	24 ... 10

Dimensions

Width	62 mm
Height	84 mm
Depth	110 mm

Material specifications

Color	green (RAL 6021)
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

Standards and regulations

Air clearances and creepage distances between the power circuits

Standards/regulations	EN 50178
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EMC regulations

Standards/regulations	EN 61000-6-2
	EN 61000-6-4

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Mounting

Mounting type	DIN rail mounting
Assembly instructions	Can be aligned with > 20 mm spacing
Mounting position	Vertical (horizontal DIN rail)

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Classifications

ECLASS

ECLASS-11.0

27371014

ETIM

ETIM 9.0

EC002055

UNSPSC

UNSPSC 21.0

39122333

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Environmental product compliance

China RoHS	Environmentally Friendly Use Period = 50 years For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"
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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com