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

## 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 <sub>C</sub>	0.8 1.2
	0.8 1.2
Rated actuating current I <sub>C</sub>	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 φ = 0.5)

### Output data

#### AC output

AC output	
Rated operating voltage $U_{\rm e}$	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 mm² 6 mm²
Conductor cross section flexible	0.2 mm² 4 mm²
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 mm² 6 mm²
Conductor cross section flexible	0.2 mm² 4 mm²
Conductor cross section AWG	24 10

#### **Dimensions**

Width	62 mm
Height	84 mm
Depth	110 mm

### Material specifications

Color	green (RAL 6021)	

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

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## Mounting

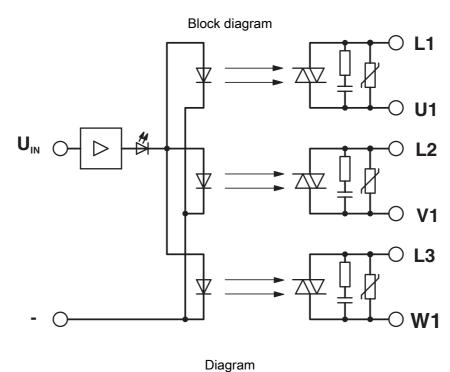
Mounting type	DIN rail mounting
Assembly instructions	Can be aligned with > 20 mm spacing
Mounting position	Vertical (horizontal DIN rail)

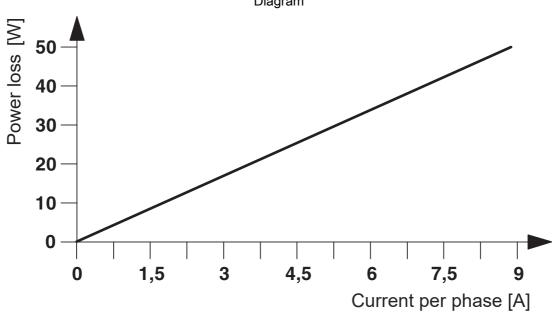
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# Drawings

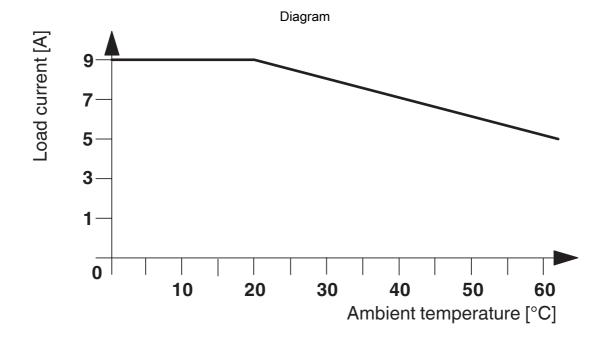






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# Classifications

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	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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