

2964186

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Electronic reversing load relay, for direct driving of equipment in the 3-phase network, with light indicator and protection circuit, output: 110-550 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
- LEDs for forward and reverse running, operating voltage, and impermissible control

### Commercial data

Item number	2964186
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C472
Product key	CK7222
Catalog page	Page 190 (IF-2011)
GTIN	4017918099398
Weight per piece (including packing)	778.5 g
Weight per piece (excluding packing)	662.22 g
Customs tariff number	85364900
Country of origin	DE



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## Technical data

### Notes

## Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the
	download area

## Product properties

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

## Electrical properties

Number of phases	3
Maximum power dissipation for nominal condition	13.5 W
Mains type	3-phase
Test voltage (Input/output)	2.5 kV (50 Hz, 60 s)
Reversing frequency	≤ 10 Hz (At cos φ = 0.5)

## Input data

#### Control

Input name	Control input right/left
Quiescent current	40 mA
Rated actuating voltage U <sub>C</sub>	24 V DC
Triggering voltage range	19.2 V DC 30 V DC
Voltage range with reference to U <sub>C</sub>	0.8 1.25
	0.8 1.25
Rated actuating current I <sub>C</sub>	7.5 mA
Reaction time in normal load operation	50 ms
	50 ms
Protective circuit	Reverse polarity protection; Polarity protection diode
	Surge protection
Operating voltage display	Green LED
Error indication	Red LED
Status display	Yellow LED
Switch-over frequency	< 10 Hz (At cos φ > 0.5)
Switchover time R <sub>L</sub> /L <sub>L</sub> (turn-on time)	20 ms

## Output data

## AC output

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Rated operating voltage $U_{\rm e}$	500 V AC
Operating voltage range	110 V AC 550 V AC
Peak offstate voltage	1200 V



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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
Surge current	230 A (tp = 10 ms, at 25 °C)
Max. load value	265 A <sup>2</sup> s
Protective circuit	RC element; RC element
	Surge protection
Surge voltage protection	> 910 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)
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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



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Standards/regulations	EN 50178		
EMC regulations			
Standards/regulations	EN 61000-6-2		
	EN 61000-6-4		
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

UNSPSC 21.0

### **ECLASS**

	ECLASS-11.0	27371003	
	ECLASS-12.0	27371003	
	ECLASS-13.0	27371003	
ETIM			
	ETIM 9.0	EC000066	
UN	ISPSC		

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## Environmental product compliance

REACh SVHC	Lead 7439-92-1
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