

2297293

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Three-phase solid-state reversing contactor with 24 V DC input, 2 A output current, zero voltage switch, optionally with thermal fuse

### Your advantages

- · Optional thermal fuse
- · Stable and short switching times
- · Noise and wear-free switching
- · Long service life
- · Integrated protection circuit
- · Integrated locking and load wiring
- · High switching frequency

#### Commercial data

Item number	2297293
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C472
Product key	CK7221
Catalog page	Page 40 (C-5-2019)
GTIN	4046356175654
Weight per piece (including packing)	437.5 g
Weight per piece (excluding packing)	419.8 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

#### Electrical properties

Number of phases	3
Test voltage (Input/output)	5 kV <sub>rms</sub> (50 Hz, 60 s)
Switching frequency	max. 5 Hz
Reversing frequency	≤ 10 Hz

#### Insulation characteristics

insulation characteristics	
Rated insulation voltage	500 V
Rated surge voltage	6 kV
Overvoltage category	III
Degree of pollution	2
Insulation characteristics between the control input voltage to the main circuit	Basic insulation

#### Input data

#### Control

Input name	Control input right/left
Rated actuating voltage $\mathrm{U}_{\mathrm{C}}$	24 V DC
Triggering voltage range	19.2 V DC 30 V DC
Voltage range with reference to $\mathrm{U}_{\mathrm{C}}$	0.8 1.25
	0.8 1.25
Rated actuating current I <sub>C</sub>	12.7 mA
Switching threshold	9.6 V ("0" signal)
	19.2 V ("1" signal)
Protective circuit	Reverse polarity protection; Suppressor diode
	Surge protection
Error indication	Red LED
Status display	Yellow LED

#### Output data

#### AC output

Rated operating voltage $\mathrm{U_e}$	500 V AC
Operating voltage range	48 V AC 575 V AC
Rated operating current at AC-51	2 A
Rated operating current at AC-53a	2 A
Peak offstate voltage	1200 V
Mains frequency	40 Hz 100 Hz



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Load current range	100 mA 2 A (see to derating)
Leakage current	6 mA
Residual voltage	< 1.5 V
Surge current	200 A (t = 10 ms)
Max. load value	250 A <sup>2</sup> s
Protective circuit	RCV circuit
Surge voltage protection	> 575 V AC

#### Connection data

#### Control circuits

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.2 mm² 2.5 mm²
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 <sub>f</sub> ·in 7 lb <sub>f</sub> ·in.

#### Load circuit

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
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 <sub>F</sub> in 7 lb <sub>F</sub> in.

#### Signaling

Status display	Yellow LED
Error indication	Red LED

#### **Dimensions**

Width	40 mm
Height	99 mm
Depth	114.5 mm

#### Environmental and real-life conditions

#### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C 70 °C
Ambient temperature (storage/transport)	-25 °C 70 °C



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### Approvals

UKCA			
Certificate	UKCA-compliant		
UL approval			
Certificate	NMFT.E323771		
UL data			
SCCR	5 kA (20 A RK5 (standard fault) fuse)		
Standards and regulations			

Standards/re	egulations
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Standards/regulations	DIN EN 50178
	EN 60947

#### Mounting

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



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### Classifications

UNSPSC 21.0

#### **ECLASS**

	ECLASS-11.0	27371003	
	ECLASS-13.0	27371003	
	ECLASS-12.0	27371003	
ETIM			
	ETIM 9.0	EC000066	
UNSPSC			
UNSPSC			

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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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