

2297219

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Three-phase solid-state contactor with 24 V DC input, 9 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
- · High switching frequency
- · Integrated protection circuit

#### Commercial data

Item number	2297219
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C472
Product key	CK7212
Catalog page	Page 43 (C-5-2019)
GTIN	4046356175579
Weight per piece (including packing)	701.8 g
Weight per piece (excluding packing)	694 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	≤ 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 U <sub>C</sub>	24 V DC
Triggering voltage range	19.2 V DC 30 V DC
Voltage range with reference to $\mathrm{U}_{\mathbb{C}}$	0.8 1.25
	0.8 1.25
Rated actuating current I <sub>C</sub>	8.3 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 U <sub>e</sub>	500 V AC
Operating voltage range	48 V AC 575 V AC
Rated operating current at AC-51	9 A
Rated operating current at AC-53a	9 A
Peak offstate voltage	1200 V
Mains frequency	40 Hz 100 Hz
Load current range	100 mA 9 A (see to derating)



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Leakage current	6 mA
Residual voltage	< 1.5 V
Surge current	300 A (t = 10 ms)
Max. load value	580 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 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>r</sub> in 7 lb <sub>r</sub> in.

## Signaling

Status display	Yellow LED
Error indication	Red LED

#### Dimensions

Width	67.5 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

#### Approvals



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#### UL approval

Certificate	NMFT.E323771	
	NRNT.E172140	
UL data		
OL data		
SCCR	5 kA (20 A RK5 (standard fault) fuse)	
FLA	2 A (at 500 V, AC Resistance)	
	2 A (at 500 V, AC General USE)	
	2 A (at 500 V, AC Resistance Air Heating)	

#### Standards and regulations

#### Standards/regulations

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

	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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