

2297206

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Three-phase solid-state contactor with 230 V AC input, 2 A output current, zero voltage switch, optionally with thermal fuse

Your advantages

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

Commercial data

Item number	2297206
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C472
Product key	CK7211
Catalog page	Page 42 (C-5-2019)
GTIN	4046356172868
Weight per piece (including packing)	419.8 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 _{rms} (50 Hz, 60 s)
Switching frequency	≤ 1 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
Mains frequency	50 Hz
	60 Hz
Rated actuating voltage $U_{\mathbb{C}}$	230 V AC
Triggering voltage range	92 V AC 253 V AC
Voltage range with reference to U_{C}	0.4 1.1
	0.4 1.1
Rated actuating current I _C	12.5 mA
Switching threshold	48 V AC ("0" signal)
	96 V AC ("1" signal)
Protective circuit	Surge protection; Varistor
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 ² 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 _r in 7 lb _r in.

Load circuit

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.2 mm ² 2.5 mm ²
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 _F in 7 lb _F 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

UL approval

Certificate	NMFT.E323771
	NRNT.E172140
UL 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

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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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