

2297345

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Three-phase solid-state reversing contactor with 230 V AC input, 16 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
- · High switching frequency
- · Integrated locking and load wiring

### Commercial data

Item number	2297345
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C472
Product key	DK7223
GTIN	4046356175708
Weight per piece (including packing)	1,842.5 g
Weight per piece (excluding packing)	1,842.5 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
Switching frequency	max. 1 Hz
Test voltage (Input/output)	5 kV <sub>rms</sub> (50 Hz, 60 s)
Switching frequency	max. 1 Hz
Reversing frequency	≤ 2 Hz

#### Insulation characteristics

mediation characteristics	
Rated insulation voltage	500 V
Rated surge voltage	6 kV
Overvoltage category	III
Degree of pollution	2

### Input data

#### Control

Input name	Control input right/left
Mains frequency	50 Hz
	60 Hz
Rated actuating voltage U <sub>C</sub>	230 V AC
Triggering voltage range	92 V AC 253 V AC
Voltage range with reference to U <sub>C</sub>	0.4 1.1
	0.4 1.1
Rated actuating current I <sub>C</sub>	11.2 mA
Switching threshold	48 V AC ("0" signal)
	96 V AC ("1" signal)
Protective circuit	Surge protection; Varistor
Error indication	Red LED
Status display	LED (yellow)

### Output data

#### AC output

Ao 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	16 A
Rated operating current at AC-53a	12 A
Peak offstate voltage	1200 V
Mains frequency	40 Hz 100 Hz



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Load current range	100 mA 16 A (see to derating)
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 4 mm²
Conductor cross-section flexible	0.2 mm <sup>2</sup> 2.5 mm <sup>2</sup>
Conductor cross-section AWG	24 12

#### Load circuit

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M4
Conductor cross-section rigid	0.5 mm² 16 mm²
Conductor cross-section flexible	0.5 mm² 16 mm²
Conductor cross-section AWG	20 6

## Signaling

Status display	LED (yellow)
Error indication	Red LED

#### **Dimensions**

Width	147.5 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

#### UL approval

Certifica	ate	NMFT.E323771	



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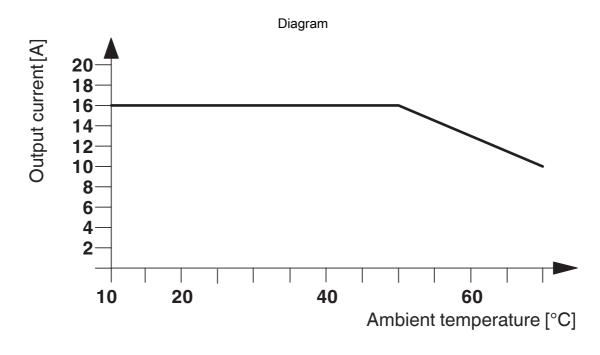
UL data			
SCCR	5 kA (50 A RK5 (standard fault) fuse)		
Standards and regulations			
Standards/regulations			
Standards/regulations	DIN EN 50178		
	EN 60947		
Mounting			
Mounting type	DIN rail mounting		
Assembly note	can be aligned with spacing = 40 mm		
Mounting position	Vertical (horizontal DIN rail)		

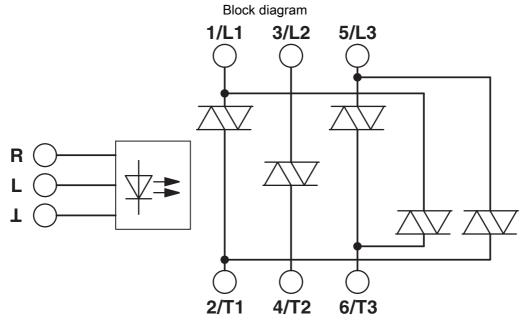


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## **Drawings**





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