

CBL-SC-24UC/04/25A - Installation contactor



1791380

<https://www.phoenixcontact.com/us/products/1791380>

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Installation contactor (Hum-free); input voltage: 24 V AC/DC; contact switching type: 4 N/C contacts; rated current: 20 A

Commercial data

Item number	1791380
Packing unit	5 pc
Minimum order quantity	5 pc
Sales key	C471
Product key	DK6411
GTIN	4067923412613
Weight per piece (including packing)	272 g
Weight per piece (excluding packing)	272 g
Customs tariff number	85371098
Country of origin	SI

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Technical data

Product properties

Product type	Installation contactor
Mechanical service life	10 ⁷ cycles

Electrical properties

Electrical service life (AC-1, AC-7a, AC-21)	200000 switching cycles
Electrical service life (AC-3, AC-3e, AC-7b, AC-23)	500000 switching cycles
Electrical service life (AC-5a)	100000 switching cycles
Electrical service life (AC-5b)	100000 switching cycles
Electrical service life (DC-1)	100000 switching cycles

Insulation characteristics: Control circuit/load circuit

Rated insulation voltage	440 V
Rated surge voltage	4 kV

Input data

Voltage	24 V AC/DC
Voltage range (AC)	20.4 V AC ... 26.4 V AC
Voltage range (DC)	20.4 V DC ... 26.4 V DC
Mains frequency	50/60 Hz
Response time range	15 ms ... 45 ms
Release time range	20 ms ... 70 ms
Drive and function	monostable
Power consumption	3.8 VA

Output data

Contact switching type	4 N/C contacts
Type of switch contact	Single contact
Minimum distance	3.6 mm (open contacts)
Fuse	≤ 25 A (Backup fuse for short-circuit protection KS according to UL and CSA)
Rated operating voltage (AC/DC)	400 V (IEC)
Rated operating voltage	480 V (UL/CSA)
Current (thermal)	20 A
Rated operating current (AC-1, AC-7a, AC-21)	20 A
Rated operating current (AC-3, AC-3e, AC-7b, AC-23)	8.5 A
Rated operating current (AC-5a)	11.2 A (230 V)
Rated operating current (AC-5b)	9.7 A (230 V)
Rated operating current (DC-1 (L/R < 1 ms), 1 pole)	25 A (24 V DC)
	20 A (48 V DC)
	15 A (60 V DC)
	6 A (110 V DC)

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	0.6 A (220 V DC)
Rated operating current (DC-1 (L/R < 1 ms), 2 poles in series)	25 A (24 V DC)
	25 A (48 V DC)
	20 A (60 V DC)
	10 A (110 V DC)
	6 A (220 V DC)
Rated operating current (DC-1 (L/R < 1 ms), 3 poles in series)	25 A (24 V DC)
	25 A (48 V DC)
	25 A (60 V DC)
	20 A (110 V DC)
	15 A (220 V DC)
Rated operating current (DC-1 (L/R < 1 ms), 4 poles in series)	25 A (24 V DC)
	25 A (48 V DC)
	25 A (60 V DC)
	20 A (110 V DC)
	15 A (220 V DC)
Rated operating power (AC-1, AC-7a, AC-21)	5.4 kW (1~, 230 V)
	9 kW (3~, 230 V)
	16 kW (3~, 400 V)
Rated operating power (AC-3, AC-3e, AC-7b, AC-23)	1.3 kW (1~, 230 V)
	2.2 kW (3~, 230 V)
	4 kW (3~, 400 V)
Mains frequency	50/60 Hz

Connection data

Coil

Connection method	Screw connection
Stripping length	7 mm
Screw thread	M3
Conductor cross-section rigid	1.5 mm² ... 2.5 mm²
Conductor cross-section flexible	1.5 mm² ... 2.5 mm²
Conductor cross-section AWG	16 ... 14
Tightening torque	0.5 Nm ... 0.6 Nm

Contact

Connection method	Screw connection
Stripping length	9 mm
Screw thread	M3,5
Conductor cross-section rigid	1 mm² ... 10 mm²
Conductor cross-section flexible	1 mm² ... 6 mm²
Conductor cross-section AWG (rigid)	18 ... 8
Conductor cross-section AWG (flexible)	18 ... 10
Tightening torque	1.1 Nm ... 1.2 Nm

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Dimensions

Item dimensions

Width	35 mm
Height	85 mm
Depth	64.9 mm
	60 mm (from top edge of DIN rail)

Material specifications

Color	light gray (RAL 7035)
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
	IP40 (for installation in a junction box - distribution board)
Ambient temperature (operation)	-5 °C ... 40 °C
Ambient temperature (storage/transport)	-30 °C ... 80 °C
Altitude	≤ 2000 m
Shock (operation)	switched contacts: 15g (Z-axis) and 2g (X-axis)
Shock (storage/transport)	unswitched contacts: 10g (Z-axis and X-axis)
Vibration (operation)	switched contacts: 3g (Z-axis) and 1g (X-axis)
Vibration (storage/transport)	unswitched contacts: 2g (Z-axis and X-axis)
Noise level	20 dB

EMC data

Electromagnetic compatibility	Conformance with EMC directive
Low Voltage Directive	Conformance with Low Voltage Directive

Mounting

Mounting type	DIN rail mounting
Assembly note	Number of contactors or switches next to each other < 40°C: no restriction
Mounting position	vertical (DIN rail horizontal, see mounting drawing)

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Approvals

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cULus Listed

Approval ID: E228652

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Classifications

ECLASS

ECLASS-13.0	27142308
ECLASS-15.0	27142308

Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%
EF3.0 Climate Change	
CO2e kg	1.97 kg CO2e