

# CBL-SC-230UC/20/32A - Installation contactor



1791341

<https://www.phoenixcontact.com/us/products/1791341>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Installation contactor (Hum-free); input voltage: 230 V AC/220 V DC; contact switching type: 2 N/O contacts; rated current: 32 A

## Commercial data

Item number	1791341
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C471
Product key	DK6441
GTIN	4067923412033
Weight per piece (including packing)	136.6 g
Weight per piece (excluding packing)	136.6 g
Customs tariff number	85371098
Country of origin	SI

# CBL-SC-230UC/20/32A - Installation contactor



1791341

<https://www.phoenixcontact.com/us/products/1791341>

## Technical data

### Product properties

Product type	Installation contactor
Mechanical service life	10 <sup>7</sup> cycles

### Electrical properties

Electrical service life (AC-1, AC-7a, AC-21)	150000 switching cycles (N/O contact)
	100000 switching cycles (N/C contact)
Electrical service life (AC-3, AC-3e, AC-7b, AC-23)	300000 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	230 V AC
	220 V DC
Voltage range (AC)	195.5 V AC ... 253 V AC
Voltage range (DC)	187 V DC ... 242 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	2.6 W

### Output data

Contact switching type	2 N/O contacts
Type of switch contact	Single contact
Minimum distance	3.6 mm (open contacts)
Rated operating voltage (AC/DC)	400 V
Current (thermal)	32 A
Rated operating current (AC-1, AC-7a, AC-21)	32 A
Rated operating current (AC-3, AC-3e, AC-7b, AC-23)	9 A (N/O contact)
	6 A (N/C contact)
Rated operating current (AC-5a)	13 A (230 V)
Rated operating current (DC-1 (L/R < 1 ms), 1 pole)	32 A (24 V DC)
	25 A (48 V DC)
	15 A (60 V DC)
	110 V DC
	0.6 A (220 V DC)

# CBL-SC-230UC/20/32A - Installation contactor



1791341

<https://www.phoenixcontact.com/us/products/1791341>

Rated operating current (DC-1 (L/R < 1 ms), 2 poles in series)	32 A (24 V DC)
	32 A (48 V DC)
	20 A (60 V DC)
	10 A (110 V DC)
	6 A (220 V DC)
Rated operating power (AC-1, AC-7a, AC-21)	7 kW (1~, 230 V)
Rated operating power (AC-3, AC-3e, AC-7b, AC-23)	1.3 kW (1~, 230 V, N/O contact)
	0.75 kW (1~, 230 V, N/C contact)
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 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section flexible	1.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
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 mm <sup>2</sup> ... 10 mm <sup>2</sup>
Conductor cross-section flexible	1 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Conductor cross-section AWG (rigid)	18 ... 8
Conductor cross-section AWG (flexible)	18 ... 10
Tightening torque	1.1 Nm ... 1.2 Nm

## Dimensions

### Item dimensions

Width	17.5 mm
Height	85 mm
Depth	64.9 mm

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
	IP40 (for installation in a junction box - distribution board)
Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-30 °C ... 80 °C
Altitude	≤ 2000 m

# CBL-SC-230UC/20/32A - Installation contactor



1791341

<https://www.phoenixcontact.com/us/products/1791341>

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

## 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)

# CBL-SC-230UC/20/32A - Installation contactor



1791341

<https://www.phoenixcontact.com/us/products/1791341>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1791341>



**cULus Listed**

Approval ID: E228652

# CBL-SC-230UC/20/32A - Installation contactor



1791341

<https://www.phoenixcontact.com/us/products/1791341>

## Classifications

### ECLASS

ECLASS-13.0	27142308
ECLASS-15.0	27142308

1791341

<https://www.phoenixcontact.com/us/products/1791341>

## 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	1.351 kg CO2e
---------	---------------

Phoenix Contact 2025 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)