

Detailed information for: BC7-30-10-01

This page contains technical data sheet, documents library and links to offering related to this product. If you require any other information, please contact us using form located at the bottom of the page.

[Print...](#)

[Print to Pdf...](#)

Data Sheet

Documentation

BC7-30-10-01

General Information

Extended Product Type: BC7-30-10-01

Product ID: GJL1313001R0101

EAN: 4013614150159

Catalog Description: BC7-30-10-01 Mini Contactor 24VDC

Long Description: The BC7-30-10 mini contactor is a compact 3 pole contactor with 1 auxiliary contact and screw terminals. They are ideally suited for applications where reliability is a must and space is at a premium. Mini contactors are used in residential buildings, commercial buildings and industrial applications for the control of single or three-phase loads up to 5.5 kW (AC-3) and 20 A / 690 V (AC-1) or switching of control signals. Further features are the noiseless and hum-free coil, a switch position indication and the integrated possibility for rail or wall mounting.



Categories

Products » Low Voltage Products and Systems » Control Products » Contactors » Mini Contactors

+ Accessories

Ordering

Minimum Order Quantity: 1 piece

Customs Tariff Number: 85365080

Popular Downloads

Data Sheet, Technical Information: [1SBC100173C0201](#)

Instructions and Manuals: [2CDC102047M6801](#)

Dimension Diagram: [GJL1200436F0001](#)

Dimensions

Product Net Width: 52.5 mm

Product Net Height: 57.5 mm

Product Net Depth / Length: 46.5 mm

Product Net Weight: 0.175 kg

Technical

Number of Poles: 4

Mini Contactor Type: Mini Contactor

Rated Operational Voltage: Auxiliary Circuit 12 ... 240 V DC
Auxiliary Circuit 12 ... 500 V AC/DC
Main Circuit 12 ... 690 V AC/DC
Main Circuit 690 V AC

Rated Frequency (f): Control Circuit DC
Main Circuit 60 Hz
Main Circuit 50 Hz
Main Circuit DC

Rated Impulse Withstand Voltage (U_{imp}): Auxiliary Circuit 6 kV
Main Circuit 6 kV

Rated Insulation Voltage (U_i): 690 V
acc. to UL/CSA 600 V

Number of Main Contacts NC: 0

Number of Main Contacts NO: 3

Rated Operational Current AC-1 (I_e): (220 / 240 V) 40 °C 20 A
(220 / 240 V) 55 °C 16 A
(380 / 440 V) 40 °C 20 A
(380 / 440 V) 55 °C 16 A
(690 V) 40 °C 6 A
(690 V) 55 °C 6 A

Rated Operational Power AC-3 (P_e): (220 / 230 / 240 V) 3 kW
(400 V) 5.5 kW
(400 V) Three Phase 5.5 kW
(440 V) 5.5 kW
(500 V) 5.5 kW
(690 V) 3 kW

Rated Short-time Withstand Current (I_{cw}): at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 96 A

Number of Auxiliary Contacts NC: 0

Number of Auxiliary Contacts NO: 1

Rated Operational Current AC-15 (I_e): (120 V) 4 A
(220 / 240 V) 4 A
(24 V) 4 A
(380 / 400 V) 3 A
(500 V) 2 A

Rated Operational Current DC-13 (I_e): (110 V) 0.7 A
(220 / 240 V) 0.4 A
(24 V) 2.5 A

Conventional Free-air Thermal Current (I_{th}): Main Circuit 20 A

Rated Control Circuit Voltage (U_c): 24 V DC

Coil Operating Limits: (acc. to IEC 60947-4-1) for DC supply 0.85 ... 1.1 x U_c (at θ ≤ 55 °C)

Degree of Protection: Auxiliary Circuit Terminals IP20

Mechanical Durability:	10000000 cycle
Minimum Switching Capacity:	Auxiliary Circuit 17 V Auxiliary Circuit 5 mA
Maximum Electrical Switching Frequency:	AC-1 300 cycles per hour AC-15 600 cycles per hour AC-3 600 cycles per hour DC-1 600 cycles per hour DC-13 600 cycles per hour DC-3 600 cycles per hour
Connecting Capacity Main Circuit:	Flexible with Ferrule 1/2x 1 ... 2.5 mm ² Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm ² Flexible 1/2x 1 ... 2.5 mm ² Rigid 1/2x 1 ... 4 mm ²
Connecting Capacity Auxiliary Circuit:	Flexible with Ferrule 1/2x 1 ... 2.5 mm ² Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm ² Flexible 1/2x 1 ... 2.5 mm ² Rigid 1/2x 1 ... 4 mm ²
Connecting Capacity Control Circuit:	Flexible with Ferrule 1/2x 1 ... 2.5 mm ² Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm ² Flexible 1/2x 1 ... 2.5 mm ² Rigid 1/2x 1 ... 4 mm ²
Wire Stripping Length:	Auxiliary Circuit 9 mm Main Circuit 9 mm
Tightening Torque:	Auxiliary Circuit 0.8 ... 1.1 N·m Control Circuit 0.8 ... 1.1 N·m Main Circuit 0.8 ... 1.1 N·m
Mounting on DIN Rail:	TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715
Power Loss:	at Rated Operating Conditions per Pole 2 W
Standards:	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1

Environmental

Ambient Air Temperature:	Operation -25 ... +55 °C Storage -40 ... +80 °C
Maximum Operating Altitude Permissible:	2000 m
Resistance to Shock acc. to IEC 60068-2-27:	11 ms Pulse 15g
Resistance to Vibrations acc. to IEC 60068-2-6:	5g / 5 ... 150 Hz

RoHS Status:	Following EU Directive 2011/65/EU
---------------------	-----------------------------------

Technical UL/CSA

Maximum Operating Voltage UL/CSA:	Main Circuit 600 V AC
Full Load Amps Motor Use:	(240 V AC) Single Phase 10 A (440 ... 480 V AC) Three Phase 7.6 A
Horsepower Rating UL/CSA:	(208 V AC) Three Phase 3 Hp (220 ... 240 V AC) Single Phase 1.5 Hp (220 ... 240 V AC) Three Phase 3 Hp (440 ... 480 V AC) Three Phase 5 Hp (550 ... 600 V AC) Three Phase 5 Hp

General Use Rating UL/CSA:	(600 V AC) 16 A
Connecting Capacity Main Circuit UL/CSA:	Stranded 1/2x 22-10 AWG
Connecting Capacity Auxiliary Circuit UL/CSA:	Stranded 1/2x 22-10 AWG
Tightening Torque UL/CSA:	Auxiliary Circuit 7 in·lb Control Circuit 7 in·lb Main Circuit 7 in·lb

Certificates and Declarations (Document Number)

BV Certificate:	1SAA920000-0204
CB Certificate:	1SAA938000-2002
CCC Certificate:	1SAA938001-3804
cUL Certificate:	cUL E191658
Declaration of Conformity - CE:	1SAD938512-0001
DNV GL Certificate:	1SAA938000-0306
EAC Certificate:	1SAA920000-2702
Instructions and Manuals:	2CDC102047M6801
KC Certificate:	1SAA938000-1501
LR Certificate:	1SAA938000-0504
RMRS Certificate:	1SAA938000-0704
RoHS Information:	1SAD938512-0001

Container Information

Package Level 1 Units:	10 piece
Package Level 1 Width:	115 mm
Package Level 1 Height:	54 mm
Package Level 1 Depth / Length:	280 mm
Package Level 1 Gross Weight:	1.82 kg
Package Level 1 EAN:	4013614418242

Classifications

Object Classification Code:	Q
E-nummer:	3210076
ETIM 4:	EC000066 - Magnet contactor, AC-switching
ETIM 5:	EC000066 - Magnet contactor, AC-switching
ETIM 6:	EC000066 - Power contactor, AC switching
ETIM 7:	EC000066 - Power contactor, AC switching
eClass:	7.0 27371003
UNSPSC:	39121529

Contact information

What would you like to do?

I need more information

Submit your inquiry

Country / region

United States of America ▼

Name

Company

E-Mail

Phone

Zip code

Your message

→ [Privacy policy](#)

Cancel

Send message

Your local ABB Sales Team

Name

Customer Support

▲ Close