

# Detailed information for: BC7-40-00-07

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Data Sheet

Documentation

## BC7-40-00-07

### General Information

Extended Product Type:BC7-40-00-07

Product ID: GJL1313201R0007

EAN: 4013614294785

Catalog Description: BC7-40-00-07 Mini Contactor

**Long Description:** The BC7-40-00 mini contactor is a compact 4 pole contactor with 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](#)

Dimension Diagram: [GJL1200436F0001](#)

### Dimensions

Product Net Width: 52.5 mm

Product Net Height:	57.5 mm
Product Net Depth:	46.5 mm
Product Net Weight:	0.175 kg

## Technical

Number of Poles:	4
Mini Contactor Type:	Mini Contactor
Rated Operational Voltage:	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 <sub>imp</sub> ):	Main Circuit 6 kV
Rated Insulation Voltage (U <sub>i</sub> ):	690 V acc. to UL/CSA 600 V
Number of Main Contacts NC:	0
Number of Main Contacts NO:	4
Rated Operational Current AC-1 (I <sub>e</sub> ):	(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 <sub>e</sub> ):	(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 <sub>cw</sub> ):	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:	0
Conventional Free-air Thermal Current (I <sub>th</sub> ):	Main Circuit 20 A
Rated Control Circuit Voltage (U <sub>c</sub> ):	12 V DC
Coil Operating Limits:	(acc. to IEC 60947-4-1) for DC supply 0.85 ... 1.1 x U <sub>c</sub> (at θ ≤ 55 °C)
Degree of Protection:	Control Circuit Terminals IP20 Main Circuit Terminals IP20
Mechanical Durability:	10000000 cycle
Minimum Switching Capacity:	17 V 200 mA
Maximum Electrical Switching Frequency:	AC-1 300 cycles per hour AC-15 360 cycles per hour AC-3 600 cycles per hour DC-1 600 cycles per hour DC-13 360 cycles per hour DC-3 600 cycles per hour
Connecting Capacity Main Circuit:	Flexible with Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup> Flexible 1/2x 1 ... 2.5 mm <sup>2</sup> Rigid 1/2x 1 ... 4 mm <sup>2</sup>

<b>Connecting Capacity Auxiliary Circuit:</b>	Flexible with Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup> Flexible 1/2x 1 ... 2.5 mm <sup>2</sup> Rigid 1/2x 1 ... 4 mm <sup>2</sup>
<b>Connecting Capacity Control Circuit:</b>	Flexible with Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup> Flexible 1/2x 1 ... 2.5 mm <sup>2</sup> Rigid 1/2x 1 ... 4 mm <sup>2</sup>
<b>Wire Stripping Length:</b>	Main Circuit 9 mm
<b>Tightening Torque:</b>	Control Circuit 0.8 ... 1.1 N·m Main Circuit 0.8 ... 1.1 N·m
<b>Mounting on DIN Rail:</b>	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
<b>Standards:</b>	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1

## Environmental

<b>Ambient Air Temperature:</b>	Operation -25 ... +55 °C Storage -40 ... +80 °C
<b>Maximum Operating Altitude Permissible:</b>	2000 m
<b>Resistance to Shock acc. to IEC 60068-2-27:</b>	11 ms Pulse 15g
<b>Resistance to Vibrations acc. to IEC 60068-2-6:</b>	5g / 5 ... 150 Hz
<b>RoHS Status:</b>	Following EU Directive 2011/65/EC

## Technical UL/CSA

<b>Maximum Operating Voltage UL/CSA:</b>	Main Circuit 600 V AC
<b>Full Load Amps Motor Use:</b>	(240 V AC) Single Phase 10 A (440 ... 480 V AC) Three Phase 7.6 A
<b>Horsepower Rating UL/CSA:</b>	(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
<b>General Use Rating UL/CSA:</b>	(600 V AC) 16 A
<b>Connecting Capacity Main Circuit UL/CSA:</b>	Stranded 1/2x 22-10 AWG
<b>Connecting Capacity Auxiliary Circuit UL/CSA:</b>	Stranded 1/2x 22-10 AWG
<b>Tightening Torque UL/CSA:</b>	Control Circuit 7 in·lb Main Circuit 7 in·lb

## Certificates and Declarations (Document Number)

<b>BV Certificate:</b>	1SAA920000-0204
<b>CB Certificate:</b>	1SAA938000-2002
<b>CCC Certificate:</b>	1SAA938001-3804
<b>cUL Certificate:</b>	cUL E191658
<b>Declaration of Conformity - CE:</b>	1SAD938512-0001
<b>DNV Certificate:</b>	1SAA938000-0305

EAC Certificate:	1SAA920000-2702
GL Certificate:	1SAA938000-0403
Instructions and Manuals:	2CDC102047M6801
KC Certificate:	1SAA938000-1501
LR Certificate:	1SAA938000-0503
RMRS Certificate:	1SAA938000-0704
RoHS Information:	1SAD938512-0001

## Container Information

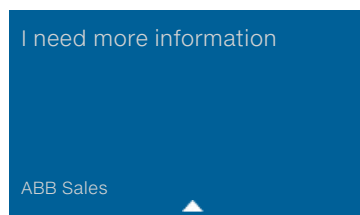
Package Level 1 Units:	10 piece
Package Level 1 Width:	115 mm
Package Level 1 Height:	54 mm
Package Level 1 Length:	280 mm
Package Level 1 Gross Weight:	1.82 kg
Package Level 1 EAN:	4013614418914

## Classifications

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

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