

# Detailed information for: BC6-30-10-07

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Data Sheet

Documentation

## BC6-30-10-07

### General Information

Extended Product Type:BC6-30-10-07

Product ID: GJL1213001R0107

EAN: 4013614052934

Catalog Description: BC6-30-10-07 Mini Contactor 12VDC

**Long Description:** The BC6-30-10 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 4 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:	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 <sub>imp</sub> ):	Auxiliary Circuit 6 kV 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:	3
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) 2.2 kW (400 V) 4 kW (400 V) Three Phase 4 kW (440 V) 4 kW (500 V) 4 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 64 A
Number of Auxiliary Contacts NC:	0
Number of Auxiliary Contacts NO:	1
Rated Operational Current AC-15 (I <sub>e</sub> ):	(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 <sub>e</sub> ):	(110 V) 0.7 A (220 / 240 V) 0.4 A (24 V) 2.5 A
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:	Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20 Main Circuit Terminals IP20
Mechanical Durability:	10000000 cycle
Minimum Switching Capacity:	17 V 5 mA

<b>Maximum Electrical Switching Frequency:</b>	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
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<b>Connecting Capacity Main 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>
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<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>
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<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>
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<b>Wire Stripping Length:</b>	Auxiliary Circuit 9 mm Main Circuit 9 mm
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<b>Tightening Torque:</b>	Auxiliary Circuit 0.8 ... 1.1 N·m Control Circuit 0.8 ... 1.1 N·m Main Circuit 0.8 ... 1.1 N·m
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<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
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<b>Power Loss:</b>	at Rated Operating Conditions per Pole 2 W
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<b>Standards:</b>	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1
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## Environmental

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

<b>Maximum Operating Voltage UL/CSA:</b>	Main Circuit 600 V AC Auxiliary Circuit 600 V AC/DC
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<b>Full Load Amps Motor Use:</b>	(240 V AC) Single Phase 4.9 A (440 ... 480 V AC) Three Phase 4.8 A
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<b>Horsepower Rating UL/CSA:</b>	(208 V AC) Three Phase 1 Hp (220 ... 240 V AC) Single Phase 0.5 Hp (220 ... 240 V AC) Three Phase 2 Hp (440 ... 480 V AC) Three Phase 3 Hp (550 ... 600 V AC) Three Phase 1 Hp
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<b>General Use Rating UL/CSA:</b>	(300 V AC) 12 A
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<b>Connecting Capacity Main Circuit UL/CSA:</b>	Stranded 1/2x 22-10 AWG
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<b>Connecting Capacity Auxiliary</b>	Stranded 1/2x 22-10 AWG
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Circuit UL/CSA:

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 Certificate: 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: 4013614414602

## Classifications

Object Classification Code: Q

ETIM 4: EC000066 - Magnet contactor, AC-switching

ETIM 5: EC000066 - Magnet contactor, AC-switching

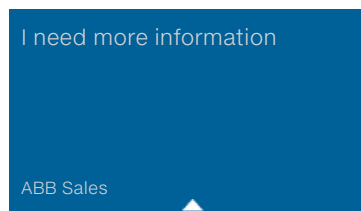
ETIM 6: EC000066 - Power contactor, AC switching

eClass: 7.0 27371003

UNSPSC: 39121529

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