

# Detailed information for: BC6-22-00-01

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Data Sheet

Documentation

## BC6-22-00-01

### General Information

Extended Product Type:BC6-22-00-01

Product ID:	GJL1213501R0001
EAN:	4013614053610
Catalog Description:	BC6-22-00-01 Mini Contactor 24VDC

**Long Description:** The BC6-22-00 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 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:	<a href="#">1SBC100173C0201</a>
Dimension Diagram:	<a href="#">GJL1200436F0001</a>

### Dimensions

Product Net Width:	52.5 mm
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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:	2
Number of Main Contacts NO:	2
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:	0
Conventional Free-air Thermal Current (I <sub>th</sub> ):	Main Circuit 20 A
Rated Control Circuit Voltage (U <sub>c</sub> ):	24 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
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>
Connecting Capacity Auxiliary 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>

**Connecting Capacity Control 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>

**Wire Stripping Length:** Main Circuit 9 mm

**Tightening Torque:** 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

**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 -20 ... +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/EC

## Technical UL/CSA

**Maximum Operating Voltage UL/CSA:** Main Circuit 600 V AC

**Full Load Amps Motor Use:** (240 V AC) Single Phase 4.9 A  
(440 ... 480 V AC) Three Phase 4.8 A

**Horsepower Rating UL/CSA:** (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

**General Use Rating UL/CSA:** (300 V AC) 12 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:** 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

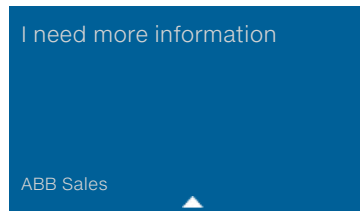
Package Level 1 Units:	10 piece
Package Level 1 Width:	115 mm
Package Level 1 Height:	54 mm
Package Level 1 Length:	280 mm
Package Level 1 Gross Weight:	1.82 kg
Package Level 1 EAN:	4013614415579

## 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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