

PRODUCT-DETAILS

# BC6-30-10-01

## BC6-30-10-01 Mini Contactor 24VDC



### General Information

Extended Product Type	BC6-30-10-01
Product ID	GJL1213001R0101
EAN	4013614052880
Catalog Description	BC6-30-10-01 Mini Contactor 24VDC

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.

### Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85365080

### Popular Downloads

Data Sheet, Technical Information	1SBC100173C0201
Instructions and Manuals	2CDC102047M6801

## 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) 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 ( $I_{cw}$ )	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 ( $I_e$ )	(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	Main Circuit 20 A

Thermal Current ( $I_{th}$ )	
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 $\theta \leq 55$ °C)
Degree of Protection	Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20 Main 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 <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	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

## Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 600 V AC Auxiliary Circuit 600 V AC/DC
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

Auxiliary Circuit 7 in-lb  
Control Circuit 7 in-lb  
Main Circuit 7 in-lb

## 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

## Certificates and Declarations (Document Number)

BV Certificate	1SAA920000-0204
CB Certificate	1SAA938000-2002
CCC Certificate	1SAA938001-3805
cUL Certificate	cUL E191658
Declaration of Conformity - CE	1SAD938515-0001
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	1SAD938514-0001

## 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	4013614414541

## 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
ETIM 7	EC000066 - Power contactor, AC switching

eClass	7.0 27371003
UNSPSC	39121529
E-Number (Sweden)	3210051

### Accessories

Identifier	Description	Type	Quantity	Unit Of Measure
GJL1201317R0002	CA6-11E Hilfskontakt	CA6-11E	1	piece
GJL1201317R0003	CA6-11M Hilfskontakt	CA6-11M	1	piece
GJL1201317R0004	CA6-11N Hilfskontakt	CA6-11N	1	piece
GJL1201330R0002	CAF6-11E Hilfskontakt	CAF6-11E	1	piece
GJL1201330R0003	CAF6-11M Hilfskontakt	CAF6-11M	1	piece
GJL1201330R0004	CAF6-11N Hilfskontakt	CAF6-11N	1	piece
GJL1201330R0006	CAF6-20E Hilfskontakt	CAF6-20E	1	piece
GJL1201330R0007	CAF6-20M Hilfskontakt	CAF6-20M	1	piece
GJL1201330R0008	CAF6-20N Hilfskontakt	CAF6-20N	1	piece
GJL1201330R0010	CAF6-02E Hilfskontakt	CAF6-02E	1	piece
GJL1201330R0011	CAF6-02M Hilfskontakt	CAF6-02M	1	piece
GJL1201330R0012	CAF6-02N Hilfskontakt	CAF6-02N	1	piece
GJL1201904R0001	BN6 Stößel	BN6	1	piece
GJL1201906R0001	LT6-B Schutzabdeckung	LT6-B	1	piece
GJL1201907R0001	LP6 Verbinder	LP6	1	piece

### Where Used (as a spare part for "Products")

Identifier	Description	Quantity	Unit Of Measure
9AAC30400163	No Description Available	1	piece
9AAC30400421	No Description Available	1	piece
9AAC30403877	No Description Available	1	piece
9AAC30404896	No Description Available	1	piece
9AAF404899	No Description Available	1	piece
9AAF404900	No Description Available	1	piece
9AAF407277	No Description Available	1	piece
9AAF408067	No Description Available	1	piece

### Product specific part data

Product	Category	Switchgear Part Category
9AAC30400163	SafePlus	Auxiliary Contactor Motor
9AAC30400421	SafeRing	Auxiliary Contactor Motor
9AAC30403877	SafeRing 36	Auxiliary Contactor Motor
9AAC30404896	SafePlus 36	Auxiliary Contactor Motor

Product	Category	Switchgear Part Category
9AAF404899	SafeRing Air	Auxiliary Contactor Motor
9AAF404900	SafePlus Air	Auxiliary Contactor Motor
9AAF407277	SafeRing AirPlus	Auxiliary Contactor Motor
9AAF408067	SafePlus AirPlus	Auxiliary Contactor Motor

## Categories

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

Medium Voltage Products and Systems → Switchgear and Motor Control → Secondary Switchgear → Gas Insulated Ring Main Units → SafeRing

Medium Voltage Products and Systems → Switchgear and Motor Control → Secondary Switchgear → Gas Insulated Ring Main Units → SafeRing 36

Medium Voltage Products and Systems → Switchgear and Motor Control → Secondary Switchgear → Gas Insulated Ring Main Units → SafeRing Air

Medium Voltage Products and Systems → Switchgear and Motor Control → Secondary Switchgear → Gas Insulated Ring Main Units → SafeRing AirPlus

Medium Voltage Products and Systems → Switchgear and Motor Control → Secondary Switchgear → Gas Insulated Secondary Switchgear → SafePlus

Medium Voltage Products and Systems → Switchgear and Motor Control → Secondary Switchgear → Gas Insulated Secondary Switchgear → SafePlus 36

Medium Voltage Products and Systems → Switchgear and Motor Control → Secondary Switchgear → Gas Insulated Secondary Switchgear → SafePlus Air

Medium Voltage Products and Systems → Switchgear and Motor Control → Secondary Switchgear → Gas Insulated Secondary Switchgear → SafePlus AirPlus

