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 PRODUCT-DETAILS

## BC6-30-10-01

### BC6-30-10-01 Mini Contactor 24 V DC - 3 NO - 0 NC - Screw Terminals




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#### General Information

<b>Extended Product Type:</b>	BC6-30-10-01
<b>Product ID:</b>	GJL1213001R0101
<b>EAN:</b>	4013614052880
<b>Catalog Description:</b>	BC6-30-10-01 Mini Contactor 24 V DC - 3 NO - 0 NC - Screw Terminals
<b>Long Description:</b>	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 buldings, commercial buildings and industrial applications for the control of single or three-phase loads up to 4 kW (AC-3) and 20 A (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.
<b>Display Name:</b>	BC6-30-10-01

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#### Ordering

<b>Minimum Order Quantity:</b>	1 piece
<b>Customs Tariff Number:</b>	85365080

## Popular Downloads

<b>EPLAN Data:</b>	9AAC201036_EPLAN
<b>Data Sheet, Technical Information:</b>	1SBC100214C0202
<b>Instructions and Manuals:</b>	2CDC102047M6801
<b>CAD Dimensional Drawing:</b>	2CDC001079B0201

## Dimensions

<b>Product Net Width:</b>	52.5 mm
<b>Product Net Depth / Length:</b>	46.7 mm
<b>Product Net Height:</b>	57.5 mm
<b>Product Net Weight:</b>	0.175 kg
<b>Dimension Diagram:</b>	GJL1200436F0001

## Technical

<b>Number of Main Contacts NO:</b>	3
<b>Number of Main Contacts NC:</b>	0
<b>Number of Auxiliary Contacts NO:</b>	1
<b>Number of Auxiliary Contacts NC:</b>	0
<b>Number of Poles:</b>	3P
<b>Standards:</b>	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1 IEC 60335-2-40 A2L
<b>Rated Operational Voltage:</b>	Auxiliary Circuit 690 V AC Auxiliary Circuit 250 V DC Main Circuit 690 V AC Main Circuit 220 V DC
<b>Rated Frequency (f):</b>	Control Circuit DC Main Circuit 60 Hz Main Circuit 50 Hz Main Circuit DC
<b>Conventional Free-air Thermal Current (<math>I_{th}</math>):</b>	Main Circuit 20 A
<b>Rated Operational Current AC-1 (<math>I_e</math>):</b>	(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
<b>Rated Operational Current AC-3 (<math>I_e</math>):</b>	(230 V) 55 °C 9 A (400 V) 55 °C 9 A (500 V) 55 °C 6.5 A (690 V) NO 55 °C 3.5 A

<b>Rated Operational Current AC-15 (I<sub>e</sub>):</b>	(24 V) 4 A (120 V) 4 A (500 V) 2 A (220 / 240 V) 4 A (380 / 400 V) 3 A
<b>Rated Operational Current DC-13 (I<sub>e</sub>):</b>	(24 V) 2.5 A (110 V) 0.7 A (220 / 240 V) 0.4 A
<b>Rated Operational Power AC-3 (P<sub>e</sub>):</b>	(230 V) Three Phase 2.2 kW (400 V) Three Phase 4 kW (500 V) Three Phase 4 kW (690 V) Three Phase, NO 3 kW
<b>Rated Breaking Capacity AC-3:</b>	8 x I <sub>e</sub> / AC-3
<b>Rated Making Capacity AC-3:</b>	10 x I <sub>e</sub> / AC-3
<b>Rated Short-time Withstand Current Low Voltage (I<sub>cw</sub>):</b>	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 64 A
<b>Rated Insulation Voltage (U<sub>i</sub>):</b>	690 V acc. to UL/CSA 600 V
<b>Rated Impulse Withstand Voltage (U<sub>imp</sub>):</b>	Auxiliary Circuit 6 kV Main Circuit 6 kV
<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
<b>Mechanical Durability:</b>	Nr. Operations 10000000 cycle
<b>Minimum Switching Capacity:</b>	Auxiliary Circuit 17 V Auxiliary Circuit 5 mA
<b>Coil Operating Limits:</b>	(acc. to IEC 60947-4-1) for DC supply 0.85 ... 1.1 x U <sub>c</sub> (at θ ≤ 55 °C)
<b>Rated Control Circuit Voltage (U<sub>c</sub>):</b>	24 V DC
<b>Coil Consumption:</b>	Average Holding Value DC 3.5 W Average Pull-in Value DC 3.5 W
<b>Power Loss:</b>	at Rated Operating Conditions AC-1 per Pole 1 W
<b>Mounting on DIN Rail:</b>	TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715
<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>
<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>	Auxiliary Circuit 9 mm Main Circuit 9 mm
<b>Degree of Protection:</b>	Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20 Main Circuit Terminals IP20
<b>Recommended Screw Driver:</b>	M3 Poqidriv 1

<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
<b>Terminal Type:</b>	Screw Terminals
<b>Mini Contactor Type:</b>	Mini Contactor
<b>Product Name:</b>	Mini Contactor

## Technical UL/CSA

<b>Maximum Operating Voltage UL/CSA:</b>	Main Circuit 600 V AC
<b>General Use Rating UL/CSA:</b>	(300 V AC) 12 A
<b>Horsepower Rating UL/CSA:</b>	(115 V AC) Single Phase 0.25 Hp (200 V AC) Three Phase 1 Hp (220 ... 240 V AC) Three Phase 2 Hp (230 V AC) Single Phase 0.5 Hp (440 ... 480 V AC) Three Phase 3 Hp (550 ... 600 V AC) Three Phase 1 Hp
<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>Contact Rating UL/CSA:</b>	A600
<b>Tightening Torque UL/CSA:</b>	Auxiliary Circuit 7 in-lb Control Circuit 7 in-lb Main Circuit 7 in-lb
<b>Full Load Amps Motor Use:</b>	(115 V AC) Single Phase 5.8 A (200 V AC) Three Phase 4.8 A (220 ... 240 V AC) Three Phase 6.8 A (230 V AC) Single Phase 4.9 A (440 ... 480 V AC) Three Phase 4.8 A (550 ... 600 V AC) Three Phase 1.7 A

## 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:</b>	5g 5 ... 150 Hz

## Material Compliance

<b>Conflict Minerals Reporting Template (CMRT):</b>	9AKK108467A5658
<b>REACH Declaration:</b>	2CMT2021-006202
<b>RoHS Declaration:</b>	2CMT2021-006277
<b>RoHS Information:</b>	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
<b>Toxic Substances Control Act - TSCA:</b>	2CMT2023-006525
<b>WEEE B2C / B2B:</b>	Business To Business

WEEE Category: 5. Small Equipment (No External Dimension More Than 50 cm)

## ABB EcoSolutions

ABB EcoSolutions:	Yes
EcoSolutions Profile:	1SFC100125C0354
End Of Life Disassembling Instructions:	1SBC100156C0269
Environmental Product Declaration - EPD:	1SAC200409H0001

## Certificates and Declarations

A2L Certificate – IEC:	1SAA938000-4601
BV Certificate:	1SAA920000-0204
CB Certificate:	1SAA938000-2002
CCC Certificate:	2024010304658943
cULus Certificate:	cUL_E191658
Declaration of Conformity - CE:	1SAD101100-3101
Declaration of Conformity - UKCA:	1SAD201100-3101
DNV GL Certificate:	1SAA938000-0306
KC Certificate:	1SAA938000-1501
LR Certificate:	1SAA938000-0504
RMRS Certificate:	1SAA938000-0704

## Container Information

Package Level 1 Units:	box 10 piece
Package Level 1 Width:	115 mm
Package Level 1 Depth / Length:	280 mm
Package Level 1 Height:	54 mm
Package Level 1 Gross Weight:	1.82 kg
Package Level 1 EAN:	4013614414541

## External Classifications and Standards

Object Classification Code:	Q
ETIM 7:	EC000066 - Power contactor, AC switching
ETIM 8:	EC000066 - Power contactor, AC switching
ETIM 9:	EC000066 - Power contactor, AC switching
eClass:	V11.0 : 27371003
UNSPSC:	39121529
IDEA Granular Category Code (IGCC):	4763 >> Power contactor, DC switching
E-Number (Finland):	3709114

E-Number (Norway): 4184030

E-Number (Sweden): 3210051

## Accessories

Identifier	Description	Type	Qty	Unit Of Measure
GJL1201317R0002	CA6-11E Auxiliary Contact 1NO/1NC screw terminal, side mounted	CA6-11E	1	piece
GJL1201317R0003	CA6-11M Auxiliary Contact 1NO/1NC screw terminal, side mounted	CA6-11M	1	piece
GJL1201317R0004	CA6-11N Auxiliary Contact 1NO/1NC screw terminal, side mounted	CA6-11N	1	piece
GJL1201330R0003	CAF6-11M Auxiliary Contact 1NO/1NC screw terminal, front mounted	CAF6-11M	1	piece
GJL1201330R0006	CAF6-20E Auxiliary Contact 2NO/ONC screw terminal, front mounted	CAF6-20E	1	piece
GJL1201330R0011	CAF6-02M Auxiliary Contact ONO/2NC screw terminal, front mounted	CAF6-02M	1	piece
GJL1201330R0007	CAF6-20M Auxiliary Contact 2NO/ONC screw terminal, front mounted	CAF6-20M	1	piece
GJL1201330R0012	CAF6-02N Auxiliary Contact ONO/2NC screw terminal, front mounted	CAF6-02N	1	piece
GJL1201330R0008	CAF6-20N Auxiliary Contact 2NO/ONC screw terminal, front mounted	CAF6-20N	1	piece
GJL1201330R0002	CAF6-11E Auxiliary Contact 1NO/1NC screw terminal, front mounted	CAF6-11E	1	piece
GJL1201330R0004	CAF6-11N Auxiliary Contact 1NO/1NC screw terminal, front mounted	CAF6-11N	1	piece
GJL1201330R0010	CAF6-02E Auxiliary Contact ONO/2NC screw terminal, front mounted	CAF6-02E	1	piece
GJL1201906R0001	LT6-B Mini Contactor Cover Cap	LT6-B	1	piece
GJL1201904R0001	BN6 Plunger for Mini Contactor (50 pcs) BN6 Plunger for Mini Contactor 50 pcs	BN6	1	piece

## Categories

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

Parts & Services > Medium Voltage Products and Systems > Service > Spares and Consumables > Parts > All Spare Parts (Relays-SWG-CB)

Parts & Services > Medium Voltage Products and Systems > Switchgear and Motor Control > Gas Insulated Secondary Switchgear (SF6 free) > SafePlus (SF6 free) > SafePlus Air up to 12kV

Parts & Services > Medium Voltage Products and Systems > Switchgear and Motor Control > Gas Insulated Secondary Switchgear (SF6 free) > SafePlus (SF6 free) > SafePlus AirPlus up to 24kV

Parts & Services > Medium Voltage Products and Systems > Switchgear and Motor Control > Gas Insulated Secondary Switchgear (SF6 free) > SafeRing (SF6 free) > SafeRing Air up to 12kV

Parts & Services > Medium Voltage Products and Systems > Switchgear and Motor Control > Gas Insulated Secondary Switchgear (SF6 free) > SafeRing (SF6 free) > SafeRing AirPlus up to 24kV

Parts & Services > Medium Voltage Products and Systems > Switchgear and Motor Control > Gas Insulated Secondary Switchgear (SF6) > SafePlus > SafePlus 36kV

Parts & Services > Medium Voltage Products and Systems > Switchgear and Motor Control > Gas Insulated Secondary Switchgear (SF6) > SafePlus > SafePlus up to 24kV

Parts & Services > Medium Voltage Products and Systems > Switchgear and Motor Control > Gas Insulated Secondary Switchgear (SF6) > SafeRing > SafeRing 36kV

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