

Detailed information for: BC6-30-01-01

This page contains technical data sheet, documents library and links to offering related to this product. If you require any other information, please contact us using form located at the bottom of the page.

BC6-30-01-01

General Information

Extended Product Type:	BC6-30-01-01
Product ID:	GJL1213001R0011
EAN:	4013614052828
Catalog Description:	BC6-30-01-01 Mini Contactor 24VDC
Long Description:	The BC6-30-01 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 / 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

Parts & Services » Medium Voltage Products and Systems » Switchgear and Motor Control » Secondary Switchgear » Gas Insulated Ring Main Units » SafeRing

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Parts & Services » Medium Voltage Products and Systems » Switchgear and Motor Control » Secondary Switchgear » Gas Insulated Ring Main Units » SafeRing Air

Parts & Services » Medium Voltage Products and Systems » Switchgear and Motor Control » Secondary Switchgear » Gas Insulated Ring Main Units » SafeRing AirPlus

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Parts & Services » Medium Voltage Products and Systems » Switchgear and Motor Control » Secondary Switchgear » Gas Insulated Secondary Switchgear » SafePlus Air

Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85365080

Popular Downloads

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

Number of Auxiliary Contacts NO: 0

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 Thermal Current (I_{th}): Main Circuit 20 A

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:	17 V 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 ² Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm ² Flexible 1/2x 1 ... 2.5 mm ² Rigid 1/2x 1 ... 4 mm ²
Connecting Capacity Auxiliary Circuit:	Flexible with Ferrule 1/2x 1 ... 2.5 mm ² Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm ² Flexible 1/2x 1 ... 2.5 mm ² Rigid 1/2x 1 ... 4 mm ²
Connecting Capacity Control Circuit:	Flexible with Ferrule 1/2x 1 ... 2.5 mm ² Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm ² Flexible 1/2x 1 ... 2.5 mm ² Rigid 1/2x 1 ... 4 mm ²
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
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

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

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 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: [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: 4013614414473

Classifications

Object Classification Code: Q

E-nummer:	3210061
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

Accessories

Identifier	Type	Unit Of Measure	Qty	Description
<u>GJL1201317R0002</u>	CA6-11E	piece	1	CA6-11E Auxiliary Contact
<u>GJL1201317R0003</u>	CA6-11M	piece	1	CA6-11M Auxiliary Contact
<u>GJL1201317R0004</u>	CA6-11N	piece	1	CA6-11N Auxiliary Contact
<u>GJL1201330R0002</u>	CAF6-11E	piece	1	CAF6-11E Auxiliary Contact
<u>GJL1201330R0003</u>	CAF6-11M	piece	1	CAF6-11M Auxiliary Contact
<u>GJL1201330R0004</u>	CAF6-11N	piece	1	CAF6-11N Auxiliary Contact
<u>GJL1201330R0006</u>	CAF6-20E	piece	1	CAF6-20E Auxiliary Contact
<u>GJL1201330R0007</u>	CAF6-20M	piece	1	CAF6-20M Auxiliary Contact
<u>GJL1201330R0008</u>	CAF6-20N	piece	1	CAF6-20N Auxiliary Contact
<u>GJL1201330R0010</u>	CAF6-02E	piece	1	CAF6-02E Auxiliary Contact
<u>GJL1201330R0011</u>	CAF6-02M	piece	1	CAF6-02M Auxiliary Contact
<u>GJL1201330R0012</u>	CAF6-02N	piece	1	CAF6-02N Auxiliary Contact
<u>GJL1201904R0001</u>	BN6	piece	1	BN6 Plunger
<u>GJL1201906R0001</u>	LT6-B	piece	1	LT6-B Cover Cap
<u>GJL1201907R0001</u>	LP6	piece	1	LP6 Connecting Link

