

BC7-30-10-01



General Information

Extended Product Type:	BC7-30-10-01
Product ID:	GJL1313001R0101
EAN:	4013614150159
Catalog Description:	BC7-30-10-01 Mini Contactor
Long Description:	The BC7-30-10 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 5.5 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 [Show accessory images](#)

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

Ordering

EAN:	4013614150159
Minimum Order Quantity:	1 piece
Customs Tariff Number:	85365080

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

Container Information

Package Level 1 Units:	10 piece
Package Level 1 Width:	115.0 mm
Package Level 1 Height:	54.0 mm
Package Level 1 Length:	280.0 mm

Package Level 1 Gross Weight: 1.820 kg
Package Level 1 EAN: 4013614418242

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): (220/240V) 40°C 20 A
 (220/240V) 55°C 16 A
 (380/440V) 40°C 20 A
 (380/440V) 55°C 16 A
 (690V) 40°C 6 A
 (690V) 55°C 6 A

Rated Operational Power AC-3 (P_e): (220 / 230 / 240V) 3.00 kW
 (400V) 5.50 kW
 (400V) Three Phase 5.50 kW
 (440V) 5.50 kW
 (500V) 5.50 kW
 (690V) 3.00 kW

Rated Short-time Withstand Current (I_{cw}): at 40°C Ambient Temp, in Free Air, from a Cold State 10s 96 kA

Number of Auxiliary Contacts NC: 0

Number of Auxiliary Contacts NO: 1

Conventional Free-air Thermal Current (I_{th}): Main Circuit 20.00 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: Main Circuit Terminals IP20

Mechanical Durability: 10000000 cycle

Minimum switching capacity [V/mA]: >17 VLT>200 mA

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 mm²
 Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm²
 Flexible 1/2x 1 ... 2.5 mm²
 Rigid 1/2x 1 ... 4 mm²

Connecting Capacity-Auxiliary Circuit: Flexible with Ferrule 1/2x 1 ... 2.5 mm²
 Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm²
 Flexible 1/2x 1 ... 2.5 mm²
 Rigid 1/2x 1 ... 4 mm²

Connecting Capacity-Control Circuit: Flexible with Ferrule 1/2x 1 ... 2.5 mm²
 Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm²
 Flexible 1/2x 1 ... 2.5 mm²

	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:	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 -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 2002/95/EC August 18, 2005 and amendment

Technical UL/CSA

Maximum Operating Voltage UL/CSA:	Main Circuit 600 V AC
Connecting Capacity-Main Circuit UL/CSA:	Stranded 1/2x 22 ... 10 AWG
Connecting Capacity-Auxiliary Circuit UL/CSA:	Stranded 1/2x 22 ... 10 AWG
Horse Power Rating UL/CSA:	208V AC Three Phase 3.00 Hp 220 ... 240V AC Three Phase 3.00 Hp 440 ... 480V AC Three Phase 5.00 Hp 550 ... 600V AC Three Phase 5.00 Hp
Tightening Torque UL/CSA:	Auxiliary Circuit 7 in·lb Control Circuit 7 in·lb Main Circuit 7 in·lb
General Use Rating UL/CSA:	600V AC 16.00 A

Certificates and Declarations (Document Number)

BV Certificate:	1SAA938000-0203
CB Certificate:	1SAA938000-2002
CCC Certificate:	1SAA938001-3804
cUL Certificate:	1SAA938003-1701
Declaration of Conformity - CE:	1SAD938510-0001
DNV Certificate:	1SAA938000-0305
EAC Certificate:	1SAA920000-2702
GL Certificate:	1SAA938000-0403
LR Certificate:	1SAA938000-0503
RMRS Certificate:	1SAA938000-0703
RoHS Information:	1SAA938003-4403
UL Certificate:	1SAA938000-1604

Classifications

Object Classification Code: Q
E-nummer: 3210076
ETIM 4.0: EC000066 - Magnet contactor, AC-switching
ETIM 5.0: EC000066 - Magnet contactor, AC-switching
UNSPSC: 39121529
