



Electric Automation
Automation specialists

Reference: BC6-30-10
Code: GJL1213001R0107

BC6-30-10-07 Mini Contactor 12VDC

Buy it at Electric Automation Network



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.

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Accessories

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Identifier	Type	Description	Qty	Unit Of Measure
GJL1201317R0002	CA6-11E	CA6-11E Auxiliary Contact	1	piece
GJL1201317R0003	CA6-11M	CA6-11M Auxiliary Contact	1	piece
GJL1201317R0004	CA6-11N	CA6-11N Auxiliary Contact	1	piece

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

Ordering

EAN:	4013614052934
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 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:	4013614414602

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 Thermal Current (I_{th}):	Main Circuit 20 A
Rated Control Circuit Voltage (U_c):	12 V DC
Coil Operating Limits:	(acc. to IEC 60947-4-1) for DC supply $0.85 \dots 1.1 \times U_c$ (at $\theta \leq 55 \text{ }^\circ\text{C}$)
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 2002/95/EC August 18, 2005 and amendment

Technical UL/CSA

Maximum Operating Voltage UL/CSA:	Main Circuit 600 V AC Auxiliary 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:	Auxiliary Circuit 7 in·lb Control Circuit 7 in·lb Main Circuit 7 in·lb

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:	1SAA938001-4402
UL Certificate:	1SAA938000-1604

Classifications

Object Classification Code:	Q
eClass:	7.0 27371003
ETIM 4:	EC000066 - Magnet contactor, AC-switching
ETIM 5:	EC000066 - Magnet contactor, AC-switching
UNSPSC:	39121529