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PRODUCT-DETAILS

# BC6-21-10-P-01

## BC6-21-10-P-01 Mini Contactor 24VDC




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### General Information

Extended Product Type	BC6-21-10-P-01
Product ID	GJL1213109R0101
EAN	4013614291036
Catalog Description	BC6-21-10-P-01 Mini Contactor 24VDC
Long Description	The BC6-21-10-P mini contactor is a compact 3 pole contactor with 1 auxiliary contact and soldering pins. 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 and a switch position indication.

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### Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85365080

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### Popular Downloads

Data Sheet, Technical Information	1SBC100214C0201
Instructions and Manuals	2CDC102047M6801
Dimension Diagram	GJL1200438F0001

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**Dimensions**


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Product Net Width	47.5 mm
Product Net Height	45.5 mm
Product Net Depth / Length	51.5 mm
Product Net Weight	0.17 kg

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**Technical**


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Number of Poles	3
Mini Contactor Type	Mini Contactor
Rated Operational Voltage	Auxiliary Circuit 690 V AC Auxiliary Circuit 250 V DC Main Circuit 690 V AC Main Circuit 220 V DC
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	1
Number of Main Contacts NO	2
Rated Operational Current AC-1 ( $I_e$ )	(220 / 240 V) 40 °C 12 A (220 / 240 V) 55 °C 12 A (380 / 440 V) 40 °C 12 A (380 / 440 V) 55 °C 12 A (690 V) 40 °C 6 A (690 V) 55 °C 6 A
Rated Operational Power AC-3 ( $P_e$ )	(230 V) Three Phase 2.2 kW (400 V) Three Phase 4 kW (500 V) Three Phase 4 kW (690 V) Three Phase, NC 3 kW (690 V) Three Phase, NO 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 ( $I_e$ )	(24 V) 4 A (120 V) 4 A (500 V) 2 A (220 / 240 V) 4 A (380 / 400 V) 3 A
Rated Operational Current DC-13 ( $I_e$ )	(24 V) 2.5 A (110 V) 0.7 A (220 / 240 V) 0.4 A
Conventional Free-air Thermal Current ( $I_{th}$ )	Main Circuit 12 A
Rated Control Circuit	24 V DC

Voltage (U<sub>c</sub>)

Coil Operating Limits	(acc. to IEC 60947-4-1) for DC supply 0.85 ... 1.1 x U <sub>c</sub> (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
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
Standards	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1

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**Technical UL/CSA**

Maximum Operating Voltage UL/CSA	Auxiliary Circuit 600 V AC/DC Main Circuit 600 V AC
Full Load Amps Motor Use	(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
Horsepower Rating UL/CSA	(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
General Use Rating UL/CSA	(300 V AC) 8 A

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**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

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**Certificates and Declarations (Document Number)**

BV Certificate	1SAA920000-0204
CB Certificate	1SAA938000-2002

CQC Certificate	CQC2003010304064033
cULus Certificate	cUL_E191658
Declaration of Conformity - CCC	2020980304001854
Declaration of Conformity - CE	1SAD938516-0001
DNV GL Certificate	1SAA938000-0306
EAC Certificate	1SAA920000-2702
Environmental Information	1SAC200067H0009
Instructions and Manuals	2CDC102047M6801
KC Certificate	1SAA938000-1501
LR Certificate	1SAA938000-0504
RMRS Certificate	1SAA938000-0704
RoHS Information	1SAD938516-0001

## Container Information

Package Level 1 Units	10 piece
Package Level 1 Width	108 mm
Package Level 1 Height	69 mm
Package Level 1 Depth / Length	247 mm
Package Level 1 Gross Weight	1.775 kg
Package Level 1 EAN	4013614415241

## 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	V11.0 : 27371003
UNSPSC	39121529

## Accessories

Identifier	Description	Type	Quantity	Unit Of Measure
GJL1201319R0003	CA6-11M-P Hilfskontakt	CA6-11M-P	1	piece
GJL1201319R0004	CA6-11N-P Hilfskontakt	CA6-11N-P	1	piece
GJL1201319R0002	CA6-11E-P Hilfskontakt	CA6-11E-P	1	piece

## Categories

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

