



Electric Automation

Reference: BC6-30-10-P Code: GJL1213009R8101

BC6-30-10-P-1.4-81 Mini Contactor 24VDC, 1.4W

Buy it at Electric Automation Network



The BC6-30-10-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 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. Due to the low coil consumption, this device can be directly controlled by a PLC. Further features are the noiseless and hum-free coil and a switch position indication.

Ordering

EAN:	4013614053436
Minimum Order Quantity:	1 piece
Customs Tariff Number:	85365080

Dimensions

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

Container Information

Package Level 1 Units: 10 piece	
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Package Level 1 Width:	108 mm
Package Level 1 Height:	69 mm
Package Level 1 Length:	247 mm
Package Level 1 Gross Weight:	1.775 kg
Package Level 1 EAN:	4013614415234

Technical

Mini Contactor Type:Interface Mini ContactorRated Operational Voltage:Auxiliary Circuit 12 240 V DC Auxiliary Circuit 12 500 V AC/DC Main Circuit 22 500 V AC/DC Main Circuit 50 W2 Main Circuit 60 V ACRated Frequency (f):Control Circuit 0 H2 Main Circuit 6 H2 Main Circuit 6 H2 Main Circuit 6 H2Rated Inpulse Withstand Voltage (U _{imp}):Auxiliary Circuit 6 kV Main Circuit 6 KVRated Insulation Voltage (U):690 V acc. to UL/CSA 600 VNumber of Main Contacts NC:0Number of Main Contacts NC:3Rated Operational Current AC-1 (I _w):(220 / 240 V) 40 °C 12 A (230 / 240 V) 55 °C 12 A (330 / 440 V) 40 °C 12 A (330 / 440 V) 55 °C 12 A (630 V 40 °C 6 ARated Operational Current AC-1 (I _w):220 / 230 V/ 10 °C 12 A (230 / 240 V) 10 °C 6 ARated Operational Power AC-3 (P _w):at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s64 ANumber of Auxiliary Contacts NC:0Number of Auxiliary Contacts NC:1Number of Auxiliary Contacts NC:1Rated Operational Current AC-15 (I _w):(220 / 240 V) 1 A (240 V) 1 A (240 V) 10	Number of Poles:	4
Rated Operational Voltage:Axiliary Circuit 12 500 V AC/DC Main Circuit 690 V AC/DC Main Circuit 690 V AC/DC Main Circuit 690 V AC/DCRated Frequency (f):Control Circuit 60 V Z Main Circuit 50 HZ Main Circuit 50 HZ Main Circuit 50 HZ Main Circuit 50 HZ Main Circuit 50 HZRated Impulse Withstand Voltage (U _{Imp}):Auxiliary Circuit 6 kV Main Circuit 60 VRated Insulation Voltage (U):csNumber of Main Contacts NC:0Number of Main Contacts NO:3Rated Operational Current AC-1 (Ie):(220 / 240 V) 40 °C 12 A (380 / 440 V) 55 °C 12 A (380 / 440 V) 55 °C 12 A (380 / 440 V) 55 °C 12 A (580 V) 40 °C 6 ARated Operational Current AC-1 (Ie):(220 / 230 / 240 V) 2.2 kW (400 V) 4 kW (560 V) 3 s °C 6 ARated Operational Power AC-3 (Pe):at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 64 ANumber of Auxiliary Contacts NO:1Rated Operational Current AC-15 (Ie):(120 V) 4 A (220 / 240 V) 3 A (380 / 400 V) 3 A (3	Mini Contactor Type:	Interface Mini Contactor
Rated Frequency (f):Main Circuit 50 Hz Main Circuit 50 Hz Main Circuit 6 kVRated Impulse Withstand Voltage (U _{limp}):Auxiliary Circuit 6 kV Main Circuit 6 kVRated Insulation Voltage (U _l):690 V acc. to UL/CSA 600 VNumber of Main Contacts NC:0Number of Main Contacts NO:3Rated Operational Current AC-1 (I _e):(220 / 240 V) 40 °C 12 A (380 / 440 V) 40 °C 12 A (380 / 440 V) 55 °C 12 A (690 V) 55 °C 12 A (690 V) 45 °C 6 ARated Operational Power AC-3 (Pe):(220 / 230 / 240 V) 2.2 kW (400 V) 4 kW (400 V) 4 kW (500 V) 3 kWRated Operational Power AC-3 (Pe):at 40 °C Ambient Temp, in Free Air, from a Cold State 10 at 40 °C Ambient Temp, in Free Air, from a Cold State 10 (220 / 240 V) 3 kWRated Operational Current AC-15 (I _e):1Rated Operational Current DC-13 (I _e):110 V) 0.7 A (220 / 240 V) 2.5 A	Rated Operational Voltage:	Auxiliary Circuit 12 500 V AC/DC Main Circuit 12 690 V AC/DC
Rated Impulse Withstand Voltage (Uinp):Main Circuit 6 kVRated Insulation Voltage (Ui):690 V acc. to UL/CSA 600 VNumber of Main Contacts NC:0Number of Main Contacts NO:3Rated Operational Current AC-1 (Ie):(220 / 240 V) 40 °C 12 A (220 / 240 V) 40 °C 12 A (380 / 440 V) 40 °C 12 A 	Rated Frequency (f):	Main Circuit 60 Hz Main Circuit 50 Hz
Rated Insulation Voltage (U,):acc. to UL/CSA 600 VNumber of Main Contacts NC:0Number of Main Contacts NO:3Rated Operational Current AC-1 (Ie):(220 / 240 V) 40 °C 12 A (380 / 440 V) 55 °C 12 A (380 / 440 V) 55 °C 12 A (380 / 440 V) 55 °C 12 A 	Rated Impulse Withstand Voltage (U_{imp}):	
Number of Main Contacts NO: 3 Rated Operational Current AC-1 (I _e): (220 / 240 V) 40 °C 12 A (380 / 440 V) 55 °C 12 A (380 / 440 V) 40 °C 6 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) 4 kW (400 V) 4 kW (400 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 (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 (220 / 240 V) 0.4 A (220 / 240 V) 0.4 A	Rated Insulation Voltage (U _i):	
Rated Operational Current AC-1 (l _e):	Number of Main Contacts NC:	0
Rated Operational Current AC-1 (Ie): $(220 / 240 \vee) 55 ^\circ$ C 12 A (380 / 440 $\vee) 40 ^\circ$ C 12 A (380 / 440 $\vee) 55 ^\circ$ C 12 A (690 $\vee) 40 ^\circ$ C 6 ARated Operational Power AC-3 (Pe): $(220 / 230 / 240 \vee) 2.2 kW$ (400 $\vee) 4 kW$ (400 $\vee) 4 kW$ (500 $\vee) 4 kW$ (500 $\vee) 4 kW$ (500 $\vee) 3 kW$ Rated Short-time Withstand Current (Icw):at 40 $^\circ$ C Ambient Temp, in Free Air, from a Cold State 10 s 64 ANumber of Auxiliary Contacts NC:0Number of Auxiliary Contacts NO:1Rated Operational Current AC-15 (Ie): $(120 \vee) 4 A$ (220 / 240 $\vee) 4 A$ (380 / 400 $\vee) 3 A$ (500 $\vee) 2 A$ Rated Operational Current DC-13 (Ie): $(110 \vee) 0.7 A$ (220 / 240 $\vee) 0.4 A$ 	Number of Main Contacts NO:	3
Rated Operational Power AC-3 (Pe):(400 V) 4 kW (400 V) Three Phase 4 kW (440 V) 4 kW (500 V) 4 kW (690 V) 3 kWRated Short-time Withstand Current (Icw):at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 64 ANumber of Auxiliary Contacts NC:0Number of Auxiliary Contacts NO:1Rated Operational Current AC-15 (Ie):(120 V) 4 A (220 / 240 V) 4 A (380 / 400 V) 3 A (500 V) 2 ARated Operational Current DC-13 (Ie):(110 V) 0.7 A (220 / 240 V) 0.4 A (240 V)	Rated Operational Current AC-1 (I _e):	(220 / 240 V) 55 °C 12 A (380 / 440 V) 40 °C 12 A (380 / 440 V) 55 °C 12 A (380 / 440 V) 55 °C 12 A (690 V) 40 °C 6 A
Rated Short-time withstand Current (Icw):s 64 ANumber of Auxiliary Contacts NC:0Number of Auxiliary Contacts NO:1Rated Operational Current AC-15 (Ie):(120 V) 4 A (220 / 240 V) 4 A (24 V) 4 A (380 / 400 V) 3 A (500 V) 2 ARated Operational Current DC-13 (Ie):(110 V) 0.7 A (220 / 240 V) 0.4 A 	Rated Operational Power AC-3 (P _e):	(400 V) 4 kW (400 V) Three Phase 4 kW (440 V) 4 kW (500 V) 4 kW
Number of Auxiliary Contacts NO: 1 Rated Operational Current AC-15 (Ie): (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 (Ie): (110 V) 0.7 A (220 / 240 V) 0.4 A (220 / 240 V) 0.4 A (220 / 240 V) 0.4 A	Rated Short-time Withstand Current (I_{cw}) :	
Rated Operational Current AC-15 (Ie): (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 (Ie): (110 V) 0.7 A (220 / 240 V) 0.4 A (24 V) 2.5 A 	Number of Auxiliary Contacts NC:	0
Rated Operational Current AC-15 (Ie): (220 / 240 V) 4 A (24 V) 4 A (380 / 400 V) 3 A (500 V) 2 A Rated Operational Current DC-13 (Ie): (110 V) 0.7 A (220 / 240 V) 0.4 A (230 / 240 V) 0.4 A (20 / 240 V) 0.4 A (24 V) 2.5 A 	Number of Auxiliary Contacts NO:	1
Rated Operational Current DC-13 (I _e): (220 / 240 V) 0.4 A (24 V) 2.5 A	Rated Operational Current AC-15 (I _e):	(220 / 240 V) 4 A (24 V) 4 A (380 / 400 V) 3 A
Conventional Free-air Thermal Current (I _{th}): Main Circuit 12 A	Rated Operational Current DC-13 (I _e):	(220 / 240 V) 0.4 A
	Conventional Free-air Thermal Current (I _{th}):	Main Circuit 12 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 Uc (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
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
Remarks:	No CA6 or CAF6 mountable

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
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) 8 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:	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