

BC7-30-01-01

**ABB contact for United States
of America**

General Information

Extended Product Type:	BC7-30-01-01
Product ID:	GJL1313001R0011
EAN:	4013614152603
Catalog Description:	BC7-30-01-01 Mini Contactor
Long Description:	The BC7-30-01 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 buildings, 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

Ordering

EAN:	4013614152603
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: 4013614418181

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:	1
Number of Auxiliary Contacts NO:	0
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 θ ≤ 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 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:	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:	3210075
ETIM 4.0:	EC000066 - Magnet contactor, AC-switching
ETIM 5.0:	EC000066 - Magnet contactor, AC-switching
UNSPSC:	39121529
