BC7-30-01-F-2.4-51



PRODUCT-DETAILS

BC7-30-01-F-2.4-51
BC7-30-01-F-2.4-51 Mini Contactor 17 ... 32 V
DC - 3 NO - 0 NC - Flat-Pin Connections



Extended Product Type	BC7-30-01-F-2.4-51
Product ID	GJL1313003R5011
EAN	4013614192265
Catalog Description	BC7-30-01-F-2.4-51 Mini Contactor 17 32 V DC - 3 NO - 0 NC - Flat-Pin Connections
Long Description	The BC7-30-01-F mini contactor is a compact 3 pole contactor with 1 auxiliary contact and flat pin connector. 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 (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 humfree coil, a switch position indication and the integrated possibility for rail or wall mounting.
Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85365080

## Popular Downloads

Data Sheet, Technical 1SBC100214C0202

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Information	
Instructions and Manuals	2CDC102047M6801
CAD Dimensional Drawing	2CDC001079B0201
<u>Dimension Diagram</u>	GJL1200437F0001
Dimensions  Product Not Width	525
Product Net Width Product Net Depth /	52.5 mm 46.7 mm
Length Product Net Height	57.5 mm
Product Net Weight	0.17 kg
Technical	
Number of Main Contacts	3
Number of Main Contacts NC	0
Number of Auxiliary Contacts NO	0
Number of Auxiliary Contacts NC	1
Number of Poles	3P
Standards	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1 IEC 60335-2-40 A2L
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
Conventional Free-air Thermal Current (I <sub>th</sub> )	Main Circuit 20 A
Rated Operational Current AC-1 (I <sub>e</sub> )	(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 Current AC-3 $(I_e)$	(230 V) 55°C 12 A (400 V) 55 °C 12 A (500 V) 55 °C 9 A (690 V) NO 55°C 3.5 A
Rated Operational Current AC-15 (I <sub>e</sub> )	(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 <sub>e</sub> )	(360 / 400 V) 3 A (24 V) 2.5 A (110 V) 0.7 A (220 / 240 V) 0.4 A
Rated Operational Power AC-3 (P <sub>e</sub> )	(230 V) Three Phase 3 kW (400 V) Three Phase 5.5 kW (500 V) Three Phase 5.5 kW (690 V) Three Phase, NO 3 kW
Rated Breaking Capacity AC-3	8 x le / AC-3
Rated Making Capacity AC-3	10 x le / AC-3

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Rated Short-time Withstand Current Low	at 40 $^{\circ}\text{C}$ Ambient Temp, in Free Air, from a Cold State 10 s 96 A
Voltage (I <sub>cw</sub> ) Rated Insulation Voltage	690 V
$(U_i)$	acc. to UL/CSA 600 V
Rated Impulse Withstand Voltage (U <sub>imp</sub> )	Auxiliary Circuit 6 kV Main Circuit 6 kV
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 (DC-3) 600 cycles per hour
Mechanical Durability Minimum Switching	10000000 cycle Auxiliary Circuit 17 V
Capacity	Auxiliary Circuit 5 mA
Coil Operating Limits  Rated Control Circuit  Voltage (U <sub>c</sub> )	(acc. to IEC 60947-4-1) for DC supply Uc Min Uc Max. (at θ ≤ 55 °C) 17 32 V DC
Coil Consumption	Average Holding Value DC 2.4 W Average Pull-in Value DC 2.4 W
Power Loss	at Rated Operating Conditions AC-1 per Pole 1.4 W
Mounting on DIN Rail	TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715
Degree of Protection	Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20 Main Circuit Terminals IP20
T ' 1 T	Flat-Pin Connections
Terminal Type	
Mini Contactor Type	Interface Mini Contactor
Mini Contactor Type Product Name Remarks  Technical UL/CSA  Maximum Operating	Interface Mini Contactor Mini Contactor
Mini Contactor Type Product Name Remarks  Technical UL/CSA  Maximum Operating Voltage UL/CSA  General Use Rating	Interface Mini Contactor Mini Contactor No CA6 or CAF6 mountable
Mini Contactor Type Product Name Remarks  Technical UL/CSA  Maximum Operating Voltage UL/CSA	Interface Mini Contactor Mini Contactor No CA6 or CAF6 mountable  Main Circuit 600 V AC
Mini Contactor Type Product Name Remarks  Technical UL/CSA  Maximum Operating Voltage UL/CSA  General Use Rating UL/CSA  Horsepower Rating	Interface Mini Contactor  Mini Contactor  No CA6 or CAF6 mountable  Main Circuit 600 V AC  (600 V AC) 16 A  (115 V AC) Single Phase 0.75 Hp  (200 V AC) Three Phase 2 Hp  (220 240 V AC) Three Phase 3 Hp  (230 V AC) Single Phase 1.5 Hp  (230 V AC) Single Phase 5 Hp
Mini Contactor Type Product Name Remarks  Technical UL/CSA  Maximum Operating Voltage UL/CSA  General Use Rating UL/CSA  Horsepower Rating UL/CSA	Interface Mini Contactor Mini Contactor No CA6 or CAF6 mountable  Main Circuit 600 V AC  (600 V AC) 16 A  (115 V AC) Single Phase 0.75 Hp (200 V AC) Three Phase 2 Hp (220 240 V AC) Three Phase 3 Hp (230 V AC) Single Phase 1.5 Hp (440 480 V AC) Three Phase 5 Hp (550 600 V AC) Three Phase 5 Hp
Mini Contactor Type Product Name Remarks  Technical UL/CSA  Maximum Operating Voltage UL/CSA  General Use Rating UL/CSA  Horsepower Rating UL/CSA  Contact Rating UL/CSA  Full Load Amps Motor	Interface Mini Contactor  Mini Contactor  No CA6 or CAF6 mountable  Main Circuit 600 V AC  (600 V AC) 16 A  (115 V AC) Single Phase 0.75 Hp (200 V AC) Three Phase 2 Hp (220 240 V AC) Three Phase 3 Hp (230 V AC) Single Phase 1.5 Hp (240 480 V AC) Three Phase 5 Hp (550 600 V AC) Three Phase 5 Hp (550 600 V AC) Three Phase 5 Hp (550 600 V AC) Three Phase 7.8 A (200 V AC) Three Phase 7.8 A (220 240 V AC) Three Phase 7.8 A (220 240 V AC) Three Phase 7.6 A
Mini Contactor Type Product Name Remarks  Technical UL/CSA  Maximum Operating Voltage UL/CSA  General Use Rating UL/CSA  Horsepower Rating UL/CSA  Contact Rating UL/CSA  Full Load Amps Motor Use  Environmental	Interface Mini Contactor  Mini Contactor  No CA6 or CAF6 mountable  Main Circuit 600 V AC  (600 V AC) 16 A  (115 V AC) Single Phase 0.75 Hp (200 V AC) Three Phase 2 Hp (220 240 V AC) Three Phase 3 Hp (230 V AC) Single Phase 1.5 Hp (240 480 V AC) Three Phase 5 Hp (550 600 V AC) Three Phase 5 Hp (550 600 V AC) Three Phase 7.8 A (200 V AC) Single Phase 13.8 A (200 V AC) Three Phase 7.8 A (220 240 V AC) Three Phase 9.6 A (230 V AC) Single Phase 10 A (440 480 V AC) Three Phase 7.6 A (550 600 V AC) Three Phase 7.6 A
Mini Contactor Type Product Name Remarks  Technical UL/CSA  Maximum Operating Voltage UL/CSA  General Use Rating UL/CSA  Horsepower Rating UL/CSA  Contact Rating UL/CSA  Full Load Amps Motor Use  Environmental  Ambient Air Temperature	Interface Mini Contactor  Mini Contactor  No CA6 or CAF6 mountable  Main Circuit 600 V AC  (600 V AC) 16 A  (115 V AC) Single Phase 0.75 Hp (200 V AC) Three Phase 2 Hp (220 240 V AC) Three Phase 3 Hp (230 V AC) Single Phase 1.5 Hp (440 480 V AC) Three Phase 5 Hp (550 600 V AC) Three Phase 5 Hp (550 600 V AC) Three Phase 7.8 A (200 V AC) Three Phase 7.8 A (200 V AC) Three Phase 7.6 A (230 V AC) Single Phase 10 A (440 480 V AC) Three Phase 7.6 A (550 600 V AC) Three Phase 6.1 A
Mini Contactor Type Product Name Remarks  Technical UL/CSA  Maximum Operating Voltage UL/CSA General Use Rating UL/CSA Horsepower Rating UL/CSA  Contact Rating UL/CSA  Full Load Amps Motor Use  Environmental Ambient Air Temperature  Maximum Operating Altitude Permissible	Interface Mini Contactor Mini Contactor No CA6 or CAF6 mountable  Main Circuit 600 V AC  (600 V AC) 16 A  (115 V AC) Single Phase 0.75 Hp (200 V AC) Three Phase 2 Hp (220 240 V AC) Three Phase 3 Hp (230 V AC) Single Phase 1.5 Hp (440 480 V AC) Three Phase 5 Hp (550 600 V AC) Three Phase 5 Hp (550 600 V AC) Three Phase 7.8 A (200 V AC) Single Phase 13.8 A (200 V AC) Three Phase 9.6 A (220 240 V AC) Three Phase 9.6 A (230 V AC) Three Phase 10 A (440 480 V AC) Three Phase 10 A (550 600 V AC) Three Phase 6.1 A
Mini Contactor Type Product Name Remarks  Technical UL/CSA  Maximum Operating Voltage UL/CSA General Use Rating UL/CSA Horsepower Rating UL/CSA  Contact Rating UL/CSA  Full Load Amps Motor Use  Environmental Ambient Air Temperature  Maximum Operating	Interface Mini Contactor  Mini Contactor  No CA6 or CAF6 mountable  Main Circuit 600 V AC  (600 V AC) 16 A  (115 V AC) Single Phase 0.75 Hp (200 V AC) Three Phase 2 Hp (220 240 V AC) Three Phase 3 Hp (230 V AC) Single Phase 1.5 Hp (440 480 V AC) Three Phase 5 Hp (550 600 V AC) Three Phase 5 Hp (550 600 V AC) Three Phase 7.8 A (200 V AC) Three Phase 7.8 A (200 V AC) Three Phase 7.6 A (230 V AC) Single Phase 10 A (440 480 V AC) Three Phase 7.6 A (550 600 V AC) Three Phase 6.1 A

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Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2021-006202
RoHS Information	2CMT2021-006277
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	2CMT2023-006525
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
ABB EcoSolutions	
End Of Life Disassembling Instructions	1SBC100156C0263
Environmental Product <u>Declaration - EPD</u>	1SAC200409H0001
Certificates and Declarations	
A2L Certificate - IEC	1SAA938000-4601
BV Certificate	1SAA920000-0204
CB Certificate	1SAA938000-2002
CQC Certificate	CQC2003010304064033
cURus Certificate	cUL E191658
Declaration of Conformity - CCC	2020980304001854
Declaration of Conformity - CE	1SAD101100-3101
Declaration of Conformity - UKCA	1SAD201100-3101
DNV GL Certificate	1SAA938000-0306
EAC Certificate	1SAA920000-2702
KC Certificate	1SAA938000-1501
LR Certificate	1SAA938000-0504
RMRS Certificate	1SAA938000-0704
UL Certificate	E191658-19880915
Container Information	
Package Level 1 Units	box 10 piece
Package Level 1 Width	115 mm
Package Level 1 Depth / Length	280 mm
Package Level 1 Height	54 mm
Package Level 1 Gross Weight	1.77 kg
Package Level 1 EAN	4013614418563
Classifications	
Object Classification Code	Q
ETIM 7	
ETIM 0	EC000066 - Power contactor, AC switching
ETIM 8	EC000066 - Power contactor, AC switching EC000066 - Power contactor, AC switching
ETIM 8 ETIM 9	
	EC000066 - Power contactor, AC switching
ETIM 9	EC000066 - Power contactor, AC switching EC000066 - Power contactor, AC switching

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## Categories

Low Voltage Products and Systems  $\rightarrow$  Control Products  $\rightarrow$  Contactors  $\rightarrow$  Mini Contactors

