PRODUCT-DETAILS

BC7-30-10-P-01

BC7-30-10-P-01 Mini Contactor 24 V DC - 3 NO - 0 NC - Soldering Pins



General Information

Extended Product Type	BC7-30-10-P-01
Product ID	GJL1313009R0101
EAN	4013614157448
Catalog Description	BC7-30-10-P-01 Mini Contactor 24 V DC - 3 NO - 0 NC - Soldering Pins
Long Description	The BC7-30-10-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 buildings, commercial buildings and industrial applications for the control of single or three-phase loads up to 5.5 kW (AC-3) and 12 A (AC-1) or switching of control signals. Further features are the noiseless and hum-free coil and a switch position indication.

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85365080

Popular Downloads

EPLAN Data	9AAC201037_EPLAN
Data Sheet, Technical	1SBC100214C0202

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Subject to change without notice

Information	
Instructions and Manuals	2CDC102047M6801
CAD Dimensional Drawing	2CDC001079B0201
Dimension Diagram	GJL1200438F0001

Dimensions

Product Net Width	47.5 mm
Product Net Depth / Length	47.7 mm
Product Net Height	45.2 mm
Product Net Weight	0.17 kg

Technical

Number of Main Contacts NO	3
Number of Main Contacts NC	0
Number of Auxiliary Contacts NO	1
Number of Auxiliary Contacts NC	0
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_{th})	Main Circuit 12 A
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 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_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
Rated Operational Power AC-3 (P_e)	(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 Ie / AC-3
Rated Making Capacity AC-3	10 x Ie / AC-3

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Rated Short-time Withstand Current Low Voltage (I_{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 96 A
Rated Insulation Voltage (U_i)	690 V acc. to UL/CSA 600 V
Rated Impulse Withstand Voltage (U_{imp})	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
Mechanical Durability	Nr. Operations 10000000 cycle
Minimum Switching Capacity	Auxiliary Circuit 17 V Auxiliary Circuit 5 mA
Coil Operating Limits	(acc. to IEC 60947-4-1) for DC supply 0.85 ... 1.1 x Uc (at θ ≤ 55 °C)
Rated Control Circuit Voltage (U_c)	24 V DC
Coil Consumption	Average Holding Value DC 3.5 W Average Pull-in Value DC 3.5 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
Terminal Type	Soldering Pins
Mini Contactor Type	Mini Contactor
Product Name	Mini Contactor

Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 600 V AC
General Use Rating UL/CSA	(600 V AC) 12 A
Horsepower Rating UL/CSA	(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
Contact Rating UL/CSA	A600
Full Load Amps Motor Use	(115 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 6.1 A

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	5g 5 ... 150 Hz

Material Compliance

Conflict Minerals	9AKK108467A5658

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Reporting Template (CMRT)	
REACH Declaration	2CMT2021-006202
RoHS Declaration	2CMT2021-006277
RoHS Information	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	1SBC100156C0270
Environmental Product Declaration - EPD	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	108 mm
Package Level 1 Depth / Length	247 mm
Package Level 1 Height	69 mm
Package Level 1 Gross Weight	1.775 kg
Package Level 1 EAN	4013614418686

External Classifications and Standards

Object Classification Code	Q
ETIM 7	EC000066 - Power contactor, AC switching
ETIM 8	EC000066 - Power contactor, AC switching
ETIM 9	EC000066 - Power contactor, AC switching
eClass	V11.0 : 27371003
UNSPSC	39121529
IDEA Granular Category Code (IGCC)	4763 >> Power contactor, DC switching

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Accessories

Identifier	Description	Type	Quantity	Unit Of Measure
GJL1201319R0003	CA6-11M-P Auxiliary Contact 1NO/1NC soldering pin, side mounted	CA6-11M-P	1	piece
GJL1201319R0004	CA6-11N-P Auxiliary Contact 1NO/1NC soldering pin, side mounted	CA6-11N-P	1	piece
GJL1201319R0002	CA6-11E-P Auxiliary Contact 1NO/1NC soldering pin, side mounted	CA6-11E-P	1	piece

Categories

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



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