



PRODUCT-DETAILS

B7D-40-00-01

B7D-40-00-01 Mini Contactor 24 V DC - 4 NO - 0 NC - Screw Terminals



General Information	
Extended Product Type	B7D-40-00-01
Product ID	GJL1317201R0001
EAN	4013614262876
Catalog Description	B7D-40-00-01 Mini Contactor 24 V DC - 4 NO - 0 NC - Screw Terminals
Long Description	The B7D-40-00 mini contactor is a compact 4 pole contactor with 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 (AC-1) or switching of control signals. The mini contactor has a build-in surge suppressor diode. Further features are the noiseless and hum-free coil, the integrated overvoltage protection, 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 Information	1SBC100214C0202
Instructions and Manuals	2CDC102047M6801
CAD Dimensional Drawing	2CDC001079B0201
Dimension Diagram	GJL1200436F0001

Dimensions	
Product Net Width	52.5 mm
Product Net Height	57.5 mm
Product Net Depth / Length	46.7 mm
Product Net Weight	0.175 kg

Technical	
Number of Poles	4
Mini Contactor Type	Mini Contactor
Rated Operational Voltage	Main Circuit 690 V AC Main Circuit 220 V DC
Rated Frequency (f)	Control Circuit DC Main Circuit 50 Hz Main Circuit 60 Hz Main Circuit DC
Rated Impulse Withstand Voltage (U _{imp})	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	4
Rated Operational Current AC-1 (I _e)	(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 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 Short-time Withstand Current Low Voltage (I _{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 96 A
Number of Auxiliary Contacts NC	0
Number of Auxiliary Contacts NO	0
Conventional Free-air Thermal Current (I _{th})	Main Circuit 20 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	Control Circuit Terminals IP20

	Main Circuit Terminals IP20
Mechanical Durability	10000000 cycle
Maximum Electrical Switching Frequency	(AC-1) 300 cycles per hour (AC-3) 600 cycles per hour (DC-1) 600 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 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	Main Circuit 9 mm
Tightening Torque	Control Circuit 0.8 ... 1.1 N·m Main Circuit 0.8 ... 1.1 N·m
Recommended Screw Driver	M3 Pozidriv 1
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
Power Loss	at Rated Operating Conditions AC-1 per Pole 1.4 W
Standards	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1

Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 600 V AC
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
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
General Use Rating UL/CSA	(600 V AC) 16 A
Connecting Capacity Main Circuit UL/CSA	Stranded 1/2x 22-10 AWG
Tightening Torque UL/CSA	Control Circuit 7 in·lb Main Circuit 7 in·lb

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	5g 5 ... 150 Hz

Material Compliance		
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)	

Certificates and Declarations		
BV Certificate		1SAA920000-0204
CB Certificate		1SAA938000-2002
CQC Certificate		CQC2003010304064033
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		E191658-19881208

Container Information		
Package Level 1 Units		10 piece
Package Level 1 Width		115 mm
Package Level 1 Height		54 mm
Package Level 1 Depth / Length		280 mm
Package Level 1 Gross Weight		1.82 kg
Package Level 1 EAN		4013614420146

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

Accessories					
Identifier	Description		Type	Quantity	Unit Of Measure
GJL1201317R0002	CA6-11E Auxiliary Contact - 0 NO - 0 NC - Screw Terminals		CA6-11E	1	piece
GJL1201317R0003	CA6-11M Auxiliary Contact - 0 NO - 0 NC - Screw Terminals		CA6-11M	1	piece
GJL1201317R0004	CA6-11N Auxiliary Contact - 0 NO - 0 NC - Screw Terminals		CA6-11N	1	piece
GJL1201330R0003	CAF6-11M Auxiliary Contact - 0 NO - 0 NC - Screw Terminals		CAF6-11M	1	piece
GJL1201330R0006	CAF6-20E Auxiliary Contact - 0 NO - 0 NC - Screw Terminals		CAF6-20E	1	piece
GJL1201330R0011	CAF6-02M Auxiliary Contact - 0 NO - 0 NC - Screw Terminals		CAF6-02M	1	piece
GJL1201330R0007	CAF6-20M Auxiliary Contact - 0 NO - 0 NC - Screw Terminals		CAF6-20M	1	piece
GJL1201330R0012	CAF6-02N Auxiliary Contact - 0 NO - 0 NC - Screw Terminals		CAF6-02N	1	piece
GJL1201330R0008	CAF6-20N Auxiliary Contact - 0 NO - 0 NC - Screw Terminals		CAF6-20N	1	piece
GJL1201330R0002	CAF6-11E Auxiliary Contact - 0 NO - 0 NC - Screw Terminals		CAF6-11E	1	piece
GJL1201330R0004	CAF6-11N Auxiliary Contact - 0 NO - 0 NC - Screw Terminals		CAF6-11N	1	piece
GJL1201330R0010	CAF6-02E Auxiliary Contact - 0 NO - 0 NC - Screw Terminals		CAF6-02E	1	piece
GJL1201906R0001	LT6-B Cover cap - No Terminals		LT6-B	1	piece
GJL1201904R0001	BN6 Plunger - No Terminals		BN6	1	piece

Categories

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

