

PRODUCT-DETAILS

# B7D-40-00-01

## B7D-40-00-01 Mini Contactor 24VDC with diode



### General Information

Extended Product Type	B7D-40-00-01
Product ID	GJL1317201R0001
EAN	4013614262876
Catalog Description	B7D-40-00-01 Mini Contactor 24VDC with diode

#### 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 / 690 V (AC-1) or switching of control signals. The mini contactor has a built-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	1SBC100173C0201
Instructions and Manuals	2CDC102047M6801

## Dimensions

Product Net Width	52.5 mm
Product Net Height	57.5 mm
Product Net Depth / Length	46.5 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 60 Hz Main Circuit 50 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 ( $P_e$ )	(220 / 230 / 240 V) 3 kW (400 V) 5.5 kW (400 V) Three Phase 5.5 kW (440 V) 5.5 kW (500 V) 5.5 kW (690 V) 3 kW
Rated Short-time Withstand Current ( $I_{cw}$ )	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 $\theta \leq 55$ °C)
Degree of Protection	Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20 Main Circuit Terminals IP20
Mechanical Durability	10000000 cycle

Minimum Switching Capacity	Main Circuit 17 V Main Circuit 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 <sup>2</sup> Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup> Flexible 1/2x 1 ... 2.5 mm <sup>2</sup> Rigid 1/2x 1 ... 4 mm <sup>2</sup>
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup> Flexible 1/2x 1 ... 2.5 mm <sup>2</sup> Rigid 1/2x 1 ... 4 mm <sup>2</sup>
Connecting Capacity Control Circuit	Flexible with Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup> Flexible 1/2x 1 ... 2.5 mm <sup>2</sup> Rigid 1/2x 1 ... 4 mm <sup>2</sup>
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
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

## Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 600 V AC
Full Load Amps Motor Use	(240 V AC) Single Phase 10 A (440 ... 480 V AC) Three Phase 7.6 A
Horsepower Rating UL/CSA	(208 V AC) Three Phase 3 Hp (220 ... 240 V AC) Single Phase 1.5 Hp (220 ... 240 V AC) Three Phase 3 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
Connecting Capacity Auxiliary 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 acc. to IEC 60068-2-6	5g / 5 ... 150 Hz
RoHS Status	Following EU Directive 2011/65/EU

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## Certificates and Declarations (Document Number)

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BV Certificate	1SAA920000-0204
CB Certificate	1SAA938000-2002
CCC Certificate	1SAA938001-3805
cULus Certificate	cUL_E191658
Declaration of Conformity - CE	1SAD938516-0001
DNV GL Certificate	1SAA938000-0306
EAC Certificate	1SAA920000-2702
Instructions and Manuals	2CDC102047M6801
KC Certificate	1SAA938000-1501
LR Certificate	1SAA938000-0504
RMRS Certificate	1SAA938000-0704
RoHS Information	1SAD938514-0001

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## Container Information

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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

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## Classifications

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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
eClass	7.0 27371003
UNSPSC	39121529

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## Accessories

Identifier	Description	Type	Quantity	Unit Of Measure
GJL1201317R0002	CA6-11E Auxiliary Contact	CA6-11E	1	piece
GJL1201317R0003	CA6-11M Auxiliary Contact	CA6-11M	1	piece
GJL1201317R0004	CA6-11N Auxiliary Contact	CA6-11N	1	piece
GJL1201330R0003	CAF6-11M Auxiliary Contact	CAF6-11M	1	piece
GJL1201330R0006	CAF6-20E Auxiliary Contact	CAF6-20E	1	piece
GJL1201330R0011	CAF6-02M Auxiliary Contact	CAF6-02M	1	piece
GJL1201330R0007	CAF6-20M Auxiliary Contact	CAF6-20M	1	piece
GJL1201330R0012	CAF6-02N Auxiliary Contact	CAF6-02N	1	piece
GJL1201330R0008	CAF6-20N Auxiliary Contact	CAF6-20N	1	piece
GJL1201330R0002	CAF6-11E Auxiliary Contact	CAF6-11E	1	piece
GJL1201330R0004	CAF6-11N Auxiliary Contact	CAF6-11N	1	piece
GJL1201330R0010	CAF6-02E Auxiliary Contact	CAF6-02E	1	piece
GJL1201906R0001	LT6-B Cover Cap	LT6-B	1	piece
GJL1201907R0001	LP6 Connecting Link	LP6	1	piece
GJL1201904R0001	BN6 Plunger	BN6	1	piece

## Categories

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

