

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

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 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:	1SBC100173C0201
Instructions and Manuals:	2CDC102047M6801
Dimension Diagram:	GJL1200436F0001

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

Technical

Number of Poles:	4
Mini Contactor Type:	Mini Contactor
Rated Operational Voltage:	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}):	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:	17 V 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:	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

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

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

Certificates and Declarations (Document Number)

BV Certificate: 1SAA920000-0204

CB Certificate: 1SAA938000-2002

CCC Certificate: 1SAA938001-3804

cUL Certificate: cUL E191658

Declaration of Conformity - CE: 1SAD938512-0001

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: 1SAD938512-0001

Container Information

Package Level 1 Units: 10 piece

Package Level 1 Width: 115 mm

Package Level 1 Height: 54 mm

Package Level 1 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

eClass: 7.0 27371003

UNSPSC: 39121529

Accessories

Identifier	Description	Type	Qty	Unit Of Measure
GJL1201317R0002	CA6-11E Auxiliary Contact	CA6-11E	1	piece

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

