

Detailed information for: B6-30-01-01

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Data Sheet

Documentation

B6-30-01-01

General Information

Extended Product Type: B6-30-01-01

Product ID:	GJL1211001R0011
EAN:	4013614051135
Catalog Description:	B6-30-01-01 Mini Contactor 24V 40-450Hz

Long Description: The B6-30-01 mini contactor is a compact 3 pole contactor with 1 auxiliary contact and 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 4 kW (AC-3) and 20 A / 690 V (AC-1) or switching of control signals. Further features are the silent coil, a switch position indication and the integrated possibility for rail or wall mounting.



Categories

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

Parts & Services » Drives » Medium voltage AC drives » Special purpose drives » ACS1000

+ [Where Used \(as a spare part for "Products"\)](#)

+ [Accessories](#)

Ordering

Minimum Order Quantity: 1 piece

Customs Tariff Number: 85365080

Popular Downloads

Data Sheet, Technical Information: [1SBC100173C0201](#)

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:
Auxiliary Circuit 12 ... 240 V DC
Auxiliary Circuit 12 ... 500 V AC/DC
Main Circuit 12 ... 690 V AC/DC
Main Circuit 690 V AC

Rated Frequency (f):
Control Circuit 400 Hz
Control Circuit 50 Hz
Control Circuit 60 Hz
Main Circuit 60 Hz
Main Circuit 50 Hz
Main Circuit DC

Rated Impulse Withstand Voltage
(U_{imp}):
Auxiliary Circuit 6 kV
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: 3

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) 2.2 kW
(400 V) 4 kW
(400 V) Three Phase 4 kW
(440 V) 4 kW
(500 V) 4 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 64 A

Number of Auxiliary Contacts NC: 1

Number of Auxiliary Contacts NO: 0

Rated Operational Current AC-15 (I_e):
(120 V) 4 A
(220 / 240 V) 4 A
(24 V) 4 A
(380 / 400 V) 3 A
(500 V) 2 A

Rated Operational Current DC-13 (I_e):
(110 V) 0.7 A
(220 / 240 V) 0.4 A
(24 V) 2.5 A

Conventional Free-air Thermal
Current (I_{th}): Main Circuit 20 A

Rated Control Circuit Voltage (U_c): 24 V AC

Coil Operating Limits: (acc. to IEC 60947-4-1) for AC supply 0.85 ... 1.1 x U_c (at $\theta \leq 55$ °C)

Degree of Protection: Auxiliary Circuit Terminals IP20
Control Circuit Terminals IP20

Mechanical Durability:	10000000 cycle
Minimum Switching Capacity:	17 V 5 mA
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
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:	Auxiliary Circuit 9 mm Main Circuit 9 mm
Tightening Torque:	Auxiliary Circuit 0.8 ... 1.1 N·m 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 -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 acc. to IEC 60068-2-6:	5g / 5 ... 150 Hz
RoHS Status:	Following EU Directive 2011/65/EC

Technical UL/CSA

Maximum Operating Voltage UL/CSA:	Main Circuit 600 V AC Auxiliary Circuit 600 V AC/DC
Full Load Amps Motor Use:	(240 V AC) Single Phase 4.9 A (440 ... 480 V AC) Three Phase 4.8 A
Horsepower Rating UL/CSA:	(208 V AC) Three Phase 1 Hp (220 ... 240 V AC) Single Phase 0.5 Hp (220 ... 240 V AC) Three Phase 2 Hp (440 ... 480 V AC) Three Phase 3 Hp (550 ... 600 V AC) Three Phase 1 Hp

General Use Rating UL/CSA:	(300 V AC) 12 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:	Auxiliary Circuit 7 in-lb 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
Environmental Information:	1SAA938002-2401
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:	4013614412455

Classifications

Object Classification Code:	Q
E-nummer:	3210031
ETIM 4:	EC000066 - Magnet contactor, AC-switching
ETIM 5:	EC000066 - Magnet contactor, AC-switching
ETIM 6:	EC000066 - Power contactor, AC switching
eClass:	7.0 27371003
UNSPSC:	39121529

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