



**Electric Automation**  
Automation specialists

Reference: VB6A-30-10  
Code: GJL1211911R8100

VB6A-30-10-80 Mini Reversing Contactor

Buy it at Electric Automation Network



The VB6A-30-10 mini reversing contactor is a compact 3 pole contactor with 1 auxiliary contact, screw terminals and mechanical interlock and safety blocking. They are ideally suited for applications where reliability is a must and space is at a premium. Mini reversing contactors are used in residential buildings, commercial buildings and industrial applications for the control of three-phase motor loads up to 4 kW (AC-3). Further features are the silent coil, a switch position indication and the integrated possibility for rail or wall mounting.

### Ordering

EAN:	4013614153211
Minimum Order Quantity:	1 piece
Customs Tariff Number:	85365080

### Dimensions

Product Net Width:	96.5 mm
Product Net Height:	57.5 mm
Product Net Depth:	46.5 mm
Product Net Weight:	0.355 kg

### Container Information

Package Level 1 Units:	5 piece
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Package Level 1 Width:	115 mm
Package Level 1 Height:	54 mm
Package Level 1 Length:	280 mm
Package Level 1 Gross Weight:	1.845 kg
Package Level 1 EAN:	4013614414237

## 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 2002/95/EC August 18, 2005 and amendment

## Technical

Contactors Starter Type:	Compact Reversing Contactor with Mechanical Interlock and Safety Blocking
Number of Auxiliary Contacts NC:	0
Number of Auxiliary Contacts NO:	1
Number of Main Contacts NC:	0
Number of Main Contacts NO:	3
Number of Poles:	4
Pollution Degree:	3
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 <sub>imp</sub> ):	Main Circuit 6 kV
Rated Insulation Voltage (U <sub>i</sub> ):	690 V acc. to UL/CSA 600 V
Rated Operational Current AC-1 (I <sub>e</sub> ):	(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 Current AC-3 (I <sub>e</sub> ):	(220 / 230 / 240 V) 55 °C 8.5 A (380 / 400 V) 55 °C 8.5 A (440 V) 55 °C 7.4 A (500 V) 55 °C 6.8 A (690 V) 55 °C 3.8 A

Rated Operational Voltage:	Auxiliary Circuit 12 ... 240 V DC Auxiliary Circuit 12 ... 500 V AC Main Circuit 690 V AC
Conventional Free-air Thermal Current ( $I_{th}$ ):	Main Circuit 20 A
Rated Control Circuit Voltage ( $U_c$ ):	220 ... 240 V AC
Coil Operating Limits:	(acc. to IEC 60947-4-1) for AC supply $0.85 \dots 1.1 \times U_c$ (at $\theta \leq 55^\circ\text{C}$ ) (acc. to IEC 60947-4-1) for DC supply $0.85 \dots 1.1 \times U_c$ (at $\theta \leq 55^\circ\text{C}$ )
Degree of Protection:	Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20 Main Circuit Terminals IP20
Mechanical Durability:	10000000 cycle
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>
Tightening Torque:	Control Circuit 0.8 ... 1.1 N·m Main Circuit 0.8 ... 1.1 N·m
Wire Stripping Length:	Auxiliary Circuit 9 mm Main Circuit 9 mm
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
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
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## Certificates and Declarations (Document Number)

CB Certificate:	1SAA938000-2002
CCC Certificate:	1SAA938001-3804
cUL Certificate:	1SAA938003-1701
Declaration of Conformity - CE:	1SAD938509-0001
EAC Certificate:	1SAA920000-2702
RMRS Certificate:	1SAA938000-0703
RoHS Information:	1SAA938001-4402
UL Certificate:	1SAA938000-1604

## Classifications

Object Classification Code:	Q
eClass:	7.0 27371009
ETIM 4:	EC000066 - Magnet contactor, AC-switching
ETIM 5:	EC000010 - Starter combination
UNSPSC:	39121529