

# VBC6-30-10-16



Products → Low Voltage Products and Systems → Control Products → Contactor Starters → Reversing Contactors

## General Information

<b>Extended Product Type:</b>	VBC6-30-10-16
<b>Product ID:</b>	GJL1213901R1106
<b>EAN:</b>	4013614082030
<b>Catalog Description:</b>	VBC6-30-10-16 Mini Reversing Contactor
<b>Long Description:</b>	The VBC6-30-10 mini reversing contactor is a compact 3 pole contactor with 1 auxiliary contact, screw terminals and normal mechanical interlock. 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 noiseless and hum-free coil, a switch position indication and the integrated possibility for rail or wall mounting.

## Ordering

<b>Minimum Order Quantity:</b>	1 piece
<b>Customs Tariff Number:</b>	85365080

## Popular Downloads

<b>Data Sheet, Technical Information:</b>	1SBC100173C0201
<b>Instructions and Manuals:</b>	2CDC102046M6801
<b>Dimension Diagram:</b>	GJL1200447F0001

## Dimensions

<b>Product Net Width:</b>	96.5 mm
<b>Product Net Height:</b>	57.5 mm
<b>Product Net Depth:</b>	46.5 mm
<b>Product Net Weight:</b>	0.355 kg

## Technical

<b>Contactor Starter Type:</b>	Compact Reversing Contactor with Normal Interlock
<b>Number of Auxiliary Contacts NC:</b>	0
<b>Number of Auxiliary Contacts NO:</b>	1
<b>Number of Main Contacts NC:</b>	0
<b>Number of Main Contacts NO:</b>	3
<b>Number of Poles:</b>	4
<b>Pollution Degree:</b>	3

<b>Rated Frequency (f):</b>	Control Circuit DC Main Circuit 60 Hz Main Circuit 50 Hz Main Circuit DC
<b>Rated Impulse Withstand Voltage (U<sub>imp</sub>):</b>	Main Circuit 6 kV
<b>Rated Insulation Voltage (U<sub>i</sub>):</b>	690 V acc. to UL/CSA 600 V
<b>Rated Operational Current AC-1 (I<sub>e</sub>):</b>	(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
<b>Rated Operational Current AC-3 (I<sub>e</sub>):</b>	(220 / 230 / 240 V) 55 °C 9 A (380 / 400 V) 55 °C 8.5 A (440 V) 55 °C 8 A (500 V) 55 °C 5.5 A (690 V) 55 °C 3.5 A
<b>Rated Operational Voltage:</b>	Main Circuit 690 V AC
<b>Conventional Free-air Thermal Current (I<sub>th</sub>):</b>	Main Circuit 20 A
<b>Rated Control Circuit Voltage (U<sub>c</sub>):</b>	48 V DC
<b>Coil Operating Limits:</b>	(acc. to IEC 60947-4-1) for DC supply 0.85 ... 1.1 x U <sub>c</sub> (at θ ≤ 55 °C)
<b>Degree of Protection:</b>	Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20 Main Circuit Terminals IP20
<b>Mechanical Durability:</b>	10000000 cycle
<b>Connecting Capacity Main Circuit:</b>	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>
<b>Connecting Capacity Auxiliary Circuit:</b>	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>
<b>Connecting Capacity Control Circuit:</b>	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>
<b>Tightening Torque:</b>	Control Circuit 0.8 ... 1.1 N·m Main Circuit 0.8 ... 1.1 N·m
<b>Wire Stripping Length:</b>	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

## 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

**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

<b>DNV GL Certificate:</b>	1SAA938000-0306
<b>EAC Certificate:</b>	1SAA920000-2702
<b>Instructions and Manuals:</b>	2CDC102046M6801
<b>KC Certificate:</b>	1SAA938000-1501
<b>LR Certificate:</b>	1SAA938000-0504
<b>RMRS Certificate:</b>	1SAA938000-0704
<b>RoHS Information:</b>	1SAD938512-0001

## Container Information

<b>Package Level 1 Units:</b>	5 piece
<b>Package Level 1 Width:</b>	115 mm
<b>Package Level 1 Height:</b>	54 mm
<b>Package Level 1 Length:</b>	280 mm
<b>Package Level 1 Gross Weight:</b>	1.845 kg
<b>Package Level 1 EAN:</b>	4013614415876

## Classifications

<b>Object Classification Code:</b>	Q
<b>ETIM 4:</b>	EC000066 - Magnet contactor, AC-switching
<b>ETIM 5:</b>	EC000010 - Starter combination
<b>ETIM 6:</b>	EC000010 - Combination of contactors
<b>ETIM 7:</b>	EC000010 - Combination of contactors
<b>eClass:</b>	7.0 27371009
<b>UNSPSC:</b>	39121529

