



**Automatización Eléctrica**

Especialistas en Automatización

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## General Information

Extended Product Type:	VBC7A-30-01-16
Product ID:	GJL1313911R1016
EAN:	4013614192340
Catalog Description:	VBC7A-30-01-16 Mini Reversing Contactor
Long Description:	The VBC7A-30-01 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 5.5 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.

## Categories

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

## Ordering

EAN:	4013614192340
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
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:	4013614419744

## 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

Contactor Starter Type:	Compact Reversing Contactor with Mechanical Interlock and Safety Blocking
Number of Auxiliary Contacts NC:	1
Number of Auxiliary Contacts NO:	0
Number of Main Contacts NC:	0
Number of Main Contacts NO:	3
Number of Poles:	4
Pollution Degree:	3
Rated Frequency (f):	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
<b>Rated Operational Current AC-3 (I<sub>e</sub>):</b>	(380 / 400 V) 55 °C 11.5 A
<b>Rated Operational Voltage:</b>	Auxiliary Circuit 12 ... 240 V DC Auxiliary Circuit 12 ... 500 V AC 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>	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
<b>Mounting on DIN Rail:</b>	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
<b>Power Loss:</b>	at Rated Operating Conditions per Pole 2 W
<b>Standards:</b>	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1

## Technical UL/CSA

<b>Maximum Operating Voltage UL/CSA:</b>	Main Circuit 600 V AC
<b>Horsepower Rating UL/CSA:</b>	(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
<b>General Use Rating UL/CSA:</b>	(600 V AC) 16 A
<b>Connecting Capacity Main Circuit UL/CSA:</b>	Stranded 1/2x 22 ... 10 AWG
<b>Connecting Capacity Auxiliary Circuit UL/CSA:</b>	Stranded 1/2x 22 ... 10 AWG
<b>Tightening Torque UL/CSA:</b>	Auxiliary Circuit 7 in·lb Control Circuit 7 in·lb Main Circuit 7 in·lb

## Certificates and Declarations (Document Number)

<b>CB Certificate:</b>	1SAA938000-2002
<b>CCC Certificate:</b>	1SAA938001-3804
<b>cUL Certificate:</b>	1SAA938003-1701
<b>Declaration of Conformity - CE:</b>	1SAD938509-0001
<b>EAC Certificate:</b>	1SAA920000-2702
<b>RMRS Certificate:</b>	1SAA938000-0703
<b>RoHS Information:</b>	1SAA938003-4403
<b>UL Certificate:</b>	1SAA938000-1604

## Classifications

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





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Product	Code	Reference	Product link
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