

# VB7-30-01-01



## General Information

<b>Extended Product Type:</b>	VB7-30-01-01
<b>Product ID:</b>	GJL1311901R0011
<b>EAN:</b>	4013614191251
<b>Catalog Description:</b>	VB7-30-01-01 Mini Reversing Contactor
<b>Long Description:</b>	The VB7-30-01 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 buldings, commercial buildings and industrial applications for the control of three-phase motor loads up to 5.5 kW (AC-3). 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 » Contactor Starters » Reversing Contactors

## Ordering

<b>EAN:</b>	4013614191251
<b>Minimum Order Quantity:</b>	1 piece
<b>Customs Tariff Number:</b>	85365080

## 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

## Container Information

<b>Package Level 1 Units:</b>	5 piece
<b>Package Level 1 Width:</b>	115.0 mm
<b>Package Level 1 Height:</b>	54.0 mm
<b>Package Level 1 Length:</b>	280.0 mm
<b>Package Level 1 Gross Weight:</b>	1.845 kg
<b>Package Level 1 EAN:</b>	4013614417344

## Environmental

<b>Ambient Air Temperature:</b>	Operation -20 ... +55 °C Storage -40 ... +80 °C
<b>Maximum Operating Altitude Permissible:</b>	2000 m
<b>Resistance to Shock acc. to IEC 60068-2-27:</b>	11 ms Pulse 15g
<b>Resistance to Vibrations acc. to IEC 60068-2-6:</b>	5g / 5 ... 150 Hz
<b>RoHS Status:</b>	Following EU Directive 2002/95/EC August 18, 2005 and amendment

## Technical

<b>Contactor Starter Type:</b>	Compact Reversing Contactor with Normal Interlock
<b>Number of Auxiliary Contacts NC:</b>	1
<b>Number of Auxiliary Contacts NO:</b>	0
<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>	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>	acc. to UL/CSA 600 V
<b>Rated Operational Current AC-1 (I<sub>e</sub>):</b>	(220/240V) 40°C 20 A (220/240V) 55°C 16 A (380/440V) 40°C 20 A (380/440V) 55°C 16 A (690V) 40°C 6 A (690V) 55°C 6 A
<b>Rated Operational Voltage:</b>	Main Circuit 690 V AC
<b>Conventional Free-air Thermal Current (I<sub>th</sub>):</b>	Main Circuit 20.00 A
<b>Rated Control Circuit Voltage (U<sub>c</sub>):</b>	24 V AC
<b>Coil Operating Limits:</b>	(acc. to IEC 60947-4-1) for AC 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>	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>Horse Power Rating UL/CSA:</b>	208V AC Three Phase 3.00 Hp 220 ... 240V AC Three Phase 3.00 Hp 440 ... 480V AC Three Phase 5.00 Hp 550 ... 600V AC Three Phase 5.00 Hp
<b>General Use Rating UL/CSA:</b>	600V AC 16.00 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

**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)**

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<b>CB Certificate:</b>	1SAA938000-2002
<b>CCC Certificate:</b>	1SAA938001-3804
<b>cUL Certificate:</b>	1SAA938003-1701
<b>Declaration of Conformity - CE:</b>	1SAD938510-0001
<b>EAC Certificate:</b>	1SAA920000-2702
<b>RMRS Certificate:</b>	1SAA938000-0703
<b>RoHS Information:</b>	1SAA938003-4403
<b>UL Certificate:</b>	1SAA938000-1604

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### **Classifications**

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<b>Object Classification Code:</b>	Q
<b>ETIM 4.0:</b>	EC000066 - Magnet contactor, AC-switching
<b>ETIM 5.0:</b>	EC000010 - Starter combination
<b>UNSPSC:</b>	39121529

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