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PRODUCT-DETAILS

VB7-30-10-01

VB7-30-10-01 Mini Reversing Contactor 24 V AC - 3 NO - 0 NC - Screw Terminals



General Information	
Extended Product Type	VB7-30-10-01
Product ID	GJL1311901R0101
EAN	4013614185373
Catalog Description	VB7-30-10-01 Mini Reversing Contactor 24 V AC - 3 NO - 0 NC - Screw Terminals
Long Description	The VB7-30-10 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 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.

Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85365080

Popular Downloads

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Data Sheet, Technical Information	1SBC100214C0202
Instructions and Manuals	2CDC102046M6801
CAD Dimensional Drawing	2CDC001079B0201
Dimension Diagram	GJL1200447F0001

Dimensions	
Product Net Width	96.2 mm
Product Net Depth / Length	46.7 mm
Product Net Height	57.5 mm
Product Net Weight	0.355 kg

Technical	
Number of Main Contacts NO	3
Number of Main Contacts NC	0
Number of Auxiliary Contacts NO	1
Number of Auxiliary Contacts NC	0
Number of Poles	3P
Standards	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1 IEC 60335-2-40 A2L
Rated Operational Voltage	Auxiliary Circuit 690 V AC Auxiliary Circuit 250 V DC Main Circuit 690 V AC Main Circuit 220 V DC
Rated Frequency (f)	Main Circuit 60 Hz Main Circuit 50 Hz Main Circuit DC
Conventional Free-air Thermal Current (I _{th})	Main Circuit 20 A
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 Current AC-3 (I _e)	(230 V) 55°C 12 A (400 V) 55°C 12 A (500 V) 55°C 9 A (690 V) NO 55°C 3.5 A
Rated Operational Power AC-3 (P _e)	(230 V) Three Phase 3 kW (400 V) Three Phase 5.5 kW (500 V) Three Phase 5.5 kW (690 V) Three Phase, NO 3 kW
Rated Breaking Capacity AC-3	8 x le / AC-3
Rated Making Capacity AC-3	10 x le / AC-3
Rated Short-time	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 96 A

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Rated Impulse Main Circuit Withstand Voltage (Usinp) Maximum Electrical (AC-1) 500 cycles per (AC-1) 500 cycles per (AC-1) 500 cycles per (BC-1) 600 cycles per (BC-3) 600 cyc	Rated Insulation Voltage (U _i)	690 \ acc. to UL/CSA 600 \
Withstand Voltage (Usinp) (AC-1) 300 cycles per Switching Frequency Switching Frequency (AC-1) 600 cycles per (AC-3) 600 cycles per (BC-3) 600 cycle	• •	Main Circuit 6 kV
Maximum Electrical (AC-1) 300 cycles per (AC-15) 600 cycles per (AC-3) 600 cycles per (DC-1) 600 cycles per (DC-1) 600 cycles per (DC-1) 600 cycles per (DC-1) 600 cycles per (DC-3)	3	
Switching Frequency (AC-15) 600 cycles per (AC-30-300 cycles per (DC-1) 600 cycles per (DC-1) 600 cycles per (DC-3) 600 cycles 600 cycle	•	(AC 1) 200 avalag par hav
Mechanical Durability Mechanical Durability Mechanical Durability Mechanical Durability Mechanical Durability Mechanical Durability Nechanical Durability		(AC-1) 300 cycles per hou (AC-15) 600 cycles per hou
Mechanical Durability Mr. Operations 100000000 Minimum Switching Capacity Auxiliary Circuit Coil Operating Limits Coil Operating Limits Coil Operating Limits Coil Control Circuit Coil Consumption Average Holding Value 50 Hz 3. Average Holding Value 50 Hz 3. Average Pull-in Value 50 Hz 3. Flexible with Insulated Ferrule 1/2x 1 2.5 Flexible Value 1 2.5 Rigid 1/2x 1 4. Flexible with Ferrule 1/2x 1 2.5 Rigid 1/2x 1 4. Average Pull-in Value 50 Hz 3.		(AC-3) 600 cycles per hou
Mechanical Durability Minimum Switching Capacity Minimum Switching Capacity Coil Operating Limits Rated Control Circuit Coil Operating Limits Rated Control Circuit Coil Consumption Average Holding Value 50 Hz 3. Average Pull-in Value 50 Hz 3. Avera		
Minimum Switching Capacity Auxiliary Circuit Auxiliary Circuit Capacity Coil Operating Limits (acc. to IEC 60947-4-1) for AC supply 0.85 1.1 x Uc (at 0 ≤ 5 Rated Control Circuit Rated Control Circuit 24 Voltage (Uc) Average Holding Value 50 Hz 3. Average Pull-in Value 50 Hz 3. This properties of the p		(DC-13) 600 cycles per hou
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Rated Control Circuit Voltage (Uc) Coil Consumption Average Holding Value 50 Hz 3. Average Pull-in Value 50 Hz 3. The probes of Probes of Protection and probes of Protection and probes of Protection and property and property and probes of Protection and property property and property and property property and property property and property	<u> </u>	Auxiliary Circuit 5 mA
Voltage (Uc) Average Holding Value 50 Hz 3. Average Pull-in Value 50 Hz 3. Ave	· -	(acc. to IEC 60947-4-1) for AC supply 0.85 1.1 x 0c (at $\theta \le 55$ °C)
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Power Loss at Rated Operating Conditions AC-1 per Pole of Mounting on DIN Rail Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 6 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6 Th35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6 Th35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6 TH35-7.5	Coil Consumption	Average Holding Value 50 Hz 3.5 V.A Average Pull-in Value 50 Hz 3.5 V.A
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Connecting Capacity Main Circuit Flexible with Ferrule 1/2x 1 2.5 Flexible with Insulated Ferrule 1/2x 1 2.5 Flexible 1/2x 1 2.5 Flexible 1/2x 1 2.5 Rigid 1/2x 1 2.5 Rigid 1/2x 1 2.5 Rigid 1/2x 1 2.5 Flexible with Ferrule 1/2x 1 2.5 Rigid 1/2x 1 2.5 Flexible with Insulated Ferrule 1/2x 1 2.5 Flexible with Insulated Ferrule 1/2x 1 2.5 Rigid 1/2x 1 2.5 Rigid 1/2x 1 2.5 Flexible with Insulated Ferrule 1/2x 1 2.5 Rigid 1/2x 1 2.5 Flexible with Insulated Ferrule 1/2x 1 2.5 Flexible with Insulated Ferrule 1/2x 1 2.5 Flexible 1/2x 1 2.5 Rigid 1/2x	Mounting on DIN Rail	TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715
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Recommended Screw Driver Pozic Tightening Torque Control Circuit 0.8 1.1 Main Circuit 0.8 1.1		Main Circuit 9 mm
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Main Circuit 0.8 1.1		M3 Pozidriv :
	Tightening Torque	Control Circuit 0.8 1.1 N·n Main Circuit 0.8 1.1 N·n
Terminal Type Screw Term	Terminal Type	Screw Terminals
Product Name Mini Reversing Conta	Product Name	Mini Reversing Contacto

Technical UL/CSA	
Maximum Operating Voltage UL/CSA	Main Circuit 600 V AC
General Use Rating UL/CSA	(600 V AC) 16 A
Horsepower Rating	(115 V AC) Single Phase 0.75 Hp
UL/CSA	(200 V AC) Three Phase 2 Hp
	(220 240 V AC) Three Phase 3 Hp
	(230 V AC) Single Phase 1.5 Hp
	(440 480 V AC) Three Phase 5 Hp
	(550 600 V AC) Three Phase 5 Hp
Connecting Capacity	Stranded 1/2x 22-10 AWG
Main Circuit UL/CSA	
Connecting Capacity	Stranded 1/2x 22-10 AWG
Auxiliary Circuit UL/CSA	

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Contact Rating UL/CSA	A600
Tightening Torque	Auxiliary Circuit 7 in lb
UL/CSA	Control Circuit 7 in-lb
	Main Circuit 7 in lb
Full Load Amps Motor Use	(115 V AC) Single Phase 13.8 A
	(200 V AC) Three Phase 7.8 A
	(220 240 V AC) Three Phase 9.6 A
	(230 V AC) Single Phase 10 A
	(440 480 V AC) Three Phase 7.6 A
	(550 600 V AC) Three Phase 6.1 A

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	5g 5 150 Hz
Pollution Degree	3

Material Compliance	
Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2021-006202
RoHS Information	2CMT2021-006277
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	2CMT2023-006525
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

ABB EcoSolutions	
End Of Life Disassembling	1SBC100156C0269
Instructions Environmental Product Declaration - EPD	1SAC200410H0001
Deciaration - EFD	

Certificates and Declarations	
A2L Certificate – IEC	1SAA938000-4601
CB Certificate	1SAA938000-2002
CQC Certificate	CQC2003010304064033
Declaration of Conformity - CCC	2020980304001854
Declaration of Conformity - CE	1SAD101100-3101
Declaration of Conformity - UKCA	1SAD201100-3101
DNV GL Certificate	1SAA938000-0306
EAC Certificate	1SAA920000-2702

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KC Certificate	1SAA938000-1501
RMRS Certificate	1SAA938000-0704
UL Certificate	E191658-19881208

Container Information	
Package Level 1 Units	box 5 piece
Package Level 1 Width	115 mm
Package Level 1 Depth / Length	280 mm
Package Level 1 Height	54 mm
Package Level 1 Gross Weight	1.845 kg
Package Level 1 EAN	4013614417375

External Classifications and Standards	
Object Classification Code	Q
ETIM 7	EC000010 - Combination of contactors
ETIM 8	EC000010 - Combination of contactors
ETIM 9	EC000010 - Combination of contactors
eClass	V11.0 : 27371009
UNSPSC	39121529
IDEA Granular Category Code (IGCC)	4761 >> Magnet contactor, AC-switching

Categories

 $Low\ Voltage\ Products\ \rightarrow Control\ Products\ \rightarrow Contactors\ \rightarrow Mini\ Contactors$

