



 PRODUCT-DETAILS

VBC6A-30-10-01

Mini Reversing Contactor VBC6A 24 V DC - 3 NO - 0 NC - Screw Terminals



General Information

Extended Product Type:	VBC6A-30-10-01
Product ID:	GJL1213911R0101
EAN:	4013614053856
Catalog Description:	Mini Reversing Contactor VBC6A 24 V DC - 3 NO - 0 NC - Screw Terminals
Long Description:	The VBC6A-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 noiseless and hum-free coil, a switch position indication and the integrated possibility for rail or wall mounting.
Display Name:	VBC6A-30-10-01

Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85365080

Popular Downloads

EPLAN Data:	9AAC205203_EPLAN
Data Sheet, Technical Information:	1SBC100214C0202
Instructions and Manuals:	2CDC102046M6801
CAD Dimensional Drawing:	2CDC001079B0201

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
Dimension Diagram:	GJL1200447F0001

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):	Control Circuit DC 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 9 A (400 V) 55 °C 9 A (500 V) 55 °C 6.5 A (690 V) NO 55°C 3.5 A

Rated Operational Current AC-15 (I_e):	(440 V AC) 3 A (24 V) 4 A (120 V) 4 A (240 V) 4 A (500 V) 2 A (380 / 400 V) 3 A
Rated Operational Current DC-13 (I_e):	(24 V) 2.5 A (110 V) 0.7 A (220 / 240 V) 0.4 A
Rated Operational Power AC-3 (P_e):	(230 V) Three Phase 2.2 kW (400 V) Three Phase 4 kW (500 V) Three Phase 4 kW (690 V) Three Phase, NO 3 kW
Rated Breaking Capacity AC-3:	8 x I_e / AC-3
Rated Making Capacity AC-3:	10 x I_e / AC-3
Rated Short-time Withstand Current Low Voltage (I_{cw}):	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 64 A
Rated Insulation Voltage (U_i):	690 V acc. to UL/CSA 600 V
Rated Impulse Withstand Voltage (U_{imp}):	Main Circuit 6 kV
Maximum Electrical Switching Frequency:	(AC-1) 300 cycles per hour (AC-15) 600 cycles per hour (AC-3) 600 cycles per hour (DC-1) 600 cycles per hour (DC-13) 600 cycles per hour (DC-3) 600 cycles per hour
Mechanical Durability:	Nr. Operations 10000000 cycle
Minimum Switching Capacity:	Auxiliary Circuit 17 V Auxiliary Circuit 5 mA
Coil Operating Limits:	(acc. to IEC 60947-4-1) for DC supply 0.85 ... 1.1 x U_c (at $\theta \leq 55$ °C)
Rated Control Circuit Voltage (U_c):	24 V DC
Coil Consumption:	Average Holding Value DC 3.5 W Average Pull-in Value DC 3.5 W
Power Loss:	at Rated Operating Conditions AC-1 per Pole 1 W
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
Connecting Capacity Main Circuit:	Flexible with Ferrule 1/2x 1 ... 2.5 mm ² Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm ² Flexible 1/2x 1 ... 2.5 mm ² Rigid 1/2x 1 ... 4 mm ²
Connecting Capacity Auxiliary Circuit:	Flexible with Ferrule 1/2x 1 ... 2.5 mm ² Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm ² Flexible 1/2x 1 ... 2.5 mm ² Rigid 1/2x 1 ... 4 mm ²
Connecting Capacity Control Circuit:	Flexible with Ferrule 1/2x 1 ... 2.5 mm ² Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm ² Flexible 1/2x 1 ... 2.5 mm ² Rigid 1/2x 1 ... 4 mm ²
Wire Stripping Length:	Auxiliary Circuit 9 mm Main Circuit 9 mm
Degree of Protection:	Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20 Main Circuit Terminals IP20
Recommended Screw Driver:	M3 Poqidriv 1

Tightening Torque:	Control Circuit 0.8 ... 1.1 N-m Main Circuit 0.8 ... 1.1 N-m
Terminal Type:	Screw Terminals
Product Name:	Mini Reversing Contactor

Technical UL/CSA

Maximum Operating Voltage UL/CSA:	Main Circuit 600 V AC
General Use Rating UL/CSA:	(300 V AC) 12 A
Horsepower Rating UL/CSA:	(115 V AC) Single Phase 0.25 Hp (200 V AC) Three Phase 1 Hp (220 ... 240 V AC) Three Phase 2 Hp (230 V AC) Single Phase 0.5 Hp (440 ... 480 V AC) Three Phase 3 Hp (550 ... 600 V AC) Three Phase 1 Hp
Connecting Capacity Main Circuit UL/CSA:	Stranded 1/2x 22-10 AWG
Connecting Capacity Auxiliary Circuit UL/CSA:	Stranded 1/2x 22-10 AWG
Contact Rating UL/CSA:	A600
Tightening Torque UL/CSA:	Auxiliary Circuit 7 in-lb Control Circuit 7 in-lb Main Circuit 7 in-lb
Full Load Amps Motor Use:	(115 V AC) Single Phase 5.8 A (200 V AC) Three Phase 4.8 A (220 ... 240 V AC) Three Phase 6.8 A (230 V AC) Single Phase 4.9 A (440 ... 480 V AC) Three Phase 4.8 A (550 ... 600 V AC) Three Phase 1.7 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 Declaration:	2CMT2021-006277
RoHS Information:	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

ABB EcoSolutions:	Yes
ABB Site Meeting Group Waste To Landfill Target:	No non-hazardous waste is sent to a landfill UL 2799 Zero Waste To Landfill Validation available
EcoSolutions Profile:	1SFC100125C0354
End Of Life Disassembling Instructions:	1SBC100156C0263
Environmental Product Declaration - EPD:	1SAC200410H0001
Recyclability Rate of the Product acc. to EN45555:	Design for Closing Resource Loops - Standard EN45555 - 87.8 %

Certificates and Declarations

A2L Certificate – IEC:	1SAA938000-4601
CB Certificate:	1SAA938000-2002
CCC Certificate:	2024010304658943
Declaration of Conformity - CE:	1SAD101100-3101
Declaration of Conformity - UKCA:	1SAD201100-3101
DNV GL Certificate:	1SAA938000-0306
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:	4013614416255

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

Categories

Products > Low Voltage Products and Systems > Control Products > Contactors > Mini Contactors > B6/B7 Mini Contactor > VBC6

