

PRODUCT-DETAILS

VBC6-30-10-F-01 VBC6-30-10-F-01 Mini Rev.Contactor 24VDC



General Information	
Extended Product Type	VBC6-30-10-F-01
Product ID	GJL1213903R0101
EAN	4013614053764
Catalog Description	VBC6-30-10-F-01 Mini Rev.Contactor 24VDC
Long Description	The VBC6-30-10-F mini reversing contactor is a compact 3 pole contactor with 1 auxiliary contact, flat pin connection 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 4 kW (AC-3). Further features are the noiseless and hum-free coil, a 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	

Data Sheet, Technical Information

1SBC100214C0202

2CDC102046M6801

Instructions and Manuals

Auxiliary Circuit 250 V DC Main Circuit 680 V AC Main Circuit 680 V AC Main Circuit 601 Circuit 00 Main Circuit 601 Number of Main Contacts No No No Rated Operational Current (220 / 240 V) 40 °C 20 A AGC-1 (l _g) (380 / 440 V) 40 °C 20 A (380 / 440 V) 40 °C 20 A (380 / 440 V) 55 °C 16 A (690 V) 55 °C 16 A (690 V) 55 °C 16 A (690 V) Three Phase 2.2 kW (610 V) Three Phase 4	Dimension Diagram	GJL1200448F0001
Product Net Width 96 2 mm Product Net Height 57.5 mm Product Net Depth / Length 46.7 mm Length 46.7 mm Length 46.7 mm Length 0.345 kg Product Net Weight 0.345 kg Product Net Product 0.345 kg Product Net Weight	Dimensions	
Product Net Height 975 mm Product Net Depth / Length Product Net Depth / 48.7 mm Length Product Net Weight 0.345 kg Technical Technical Technical Number of Poles 3.3 Rated Operational Voltage Auxiliary Circuit 80 VA Main Circuit 80 M Main Circuit 80 M Number of Main Contacts NO Number of Main Contacts NO Rated Operational Current (220 / 240 V) 40 ° C2 M (230 V) 40 ° C2 M		96.2 mm
Product Net Weight 46.7 mm Length 6 Product Net Weight 0.345 kg Technical Number of Poles 3 Rated Operational Voltage Auxiliary Circuit 690 V AC Auxiliary Circuit 690 V AC Main Circuit 690 V AC Main Circuit 690 V AC Main Circuit 600 V Main C		
Product Net Weight 0.345 kg Technical	Product Net Depth /	
Number of Poles 3 Rated Operational Voltage Auxiliary Circuit 250 V DC Main Circuit 250 V DC Main Circuit 250 V DC Main Circuit 20 V DC Rated Frequency (f) Control Circuit 20 MC Main Circuit 50 HZ Main Circuit		0.345 kg
Rated Operational Voltage Auxiliary Circuit 690 VAC Main Circuit 500 VAC Main Circuit 500 VAC Main Circuit 500 VAC Main Circuit 500 VAC Rated Frequency (f) Control Circuit DO Main Circuit 600 Main Circuit 600 Muncher of Main Contacts Control UI/CSA 600 V Number of Main Contacts Control 100 No Circuit 600 Rated Operational Current (220 / 240 V) 40 °C 20 A (300 / 440 V) 40 °C 20 A (300 / 440 V) 40 °C 20 A AC-1 (l _a) (300 / 440 V) 40 °C 20 A (300 / 500 V) 55 °C 6 A (300 / 440 V) 40 °C 20 A AC-3 (P _a) (400 V) 55 °C 6 A (600 V) 55 °C 6 A (600 V) 55 °C 6 A Kated Short-time at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 64 A Withstand Current Low (400 V) Three Phase 4 LW Voltage (l _{caw}) Contacts NO Contacts NO Number of Auxiliary Contacts NO Contacts NO Contacts NO	Technical	
Auxiliary Circuit 360 V AC Main Circuit 360 V AC Main Circuit 300 V AC Rated Frequency (f) Control Circuit DC Main Circuit 30 PA Control Circuit DC Main Circuit 30 PA Main	Number of Poles	3
Main Circuit 60 Hz Main Circuit 60 Hz Rated Impulse Withstand Main Circuit 6 kV Voltage (U _{mp}) Main Circuit 6 kV Rated Insulation Voltage 690 V (Q) acc. to UL/CSA 600 V Number of Main Contacts 0 NC 3 Rated Operational Current (220 / 240 V) 40 °C 20 A AC-1 (I _g) (220 / 240 V) 40 °C 20 A Sigo / 440 V) 40 °C 20 A (690 V) 40 °C 20 A AC-1 (I _g) (230 / 240 V) 50 °C 16 A Sigo / 440 V) 40 °C 20 A (690 V) 40 °C 20 A AC-1 (I _g) (230 / 240 V) 50 °C 16 A Sigo / 440 V) 40 °C 20 A (690 V) 40 °C 20 A AC-3 (P _g) (230 V) Three Phase 1 kW (G50 V) 10 °C 6 Phase 4 kW (690 V) 10 °C 6 A (G50 V) Three Phase 2 2 W (400 V) Three Phase 2 A (K00 V) Three Phase 4 KW (690 V) Three Phase 4 kW (G50 V) Three Phase 4 kW (690 V) Three Phase 4 kW (K00 V) Three Phase 4 kW (690 V) Three Phase 4 kW (K00 V) Three Phase 4 kW (690 V) Three Phase 4 kW (K00 V) Three Phase 4 kW (690 V) Three Phase 4 kW (K00 V) Three Phase 4 kW (24 V) 4 A	Rated Operational Voltage	Auxiliary Circuit 250 V DC Main Circuit 690 V AC
Voltage (U _{imp}) 690 V Rated Insulation Voltage (U ₁) 600 V Number of Main Contacts NC 0 Number of Main Contacts NO 3 Rated Operational Current AC-1 (I _g) (220 / 240 V) 40 °C 20 A (380 / 440 V) 40 °C 20 A (380 / 440 V) 40 °C 20 A (380 / 440 V) 45 °C 16 A (690 V) 55 °C 16 A (690 V) 55 °C 16 A Rated Operational Power AC-3 (P _g) (230 V) Three Phase 4 LW (690 V) Three Phase 4 LW (500 V) Three Phase 4 LW (690 V) Th	Rated Frequency (f)	Main Circuit 60 Hz Main Circuit 50 Hz
(U,) acc. to UL/CSA 600 V Number of Main Contacts NC 0 Number of Main Contacts NO 3 No (220 / 240 V) 40 °C 20 A Ac-1 (l _e) (220 / 240 V) 55 °C 16 A (380 / 440 V) 55 °C 16 A (380 / 440 V) 55 °C 16 A (380 / 440 V) 55 °C 16 A (380 / 440 V) 55 °C 16 A (380 / 440 V) 55 °C 16 A (380 / 440 V) 55 °C 16 A (690 V) 50 °C 6 A (690 V) 50 °C 6 A (690 V) 50 °C 6 A (690 V) 50 °C 6 A (690 V) Three Phase 4.2 kW (500 V) Three Phase 4.2 kW AC-3 (P _e) (230 V) Three Phase 4.2 kW (500 V) Three Phase 4.2 kW (500 V) Three Phase 4.8 W (500 V) Three Phase 4.8 W (500 V) Three Phase 4.8 W (690 V) Three Phase 4.8 W (500 V) Three Phase 4.8 W (500 V) Three Phase 4.8 W (500 V) Three Phase 4.8 W (500 V) Three Phase 4.8 W (500 V) Three Phase 4.8 W (400 V) A (40 V A) 0 °C A (240 V) 4 A (24 V) 4 A (24 V) 4 A (24 V) 4 A (24 V) 4 A (24 V) 4 A (24 V) 4 A (380 / 400 V) 3 A (24 V) 4 A	Rated Impulse Withstand Voltage (U _{imp})	Main Circuit 6 kV
NC Second S	Rated Insulation Voltage (U _i)	
NO (220 / 240 V) 40 °C 20 A Ac-1 (I _e) (220 / 240 V) 55 °C 16 A AC-1 (I _e) (380 / 440 V) 55 °C 16 A (380 / 440 V) 55 °C 16 A (690 V) 55 °C 6 A (690 V) 55 °C 6 A (690 V) 55 °C 6 A (690 V) 55 °C 6 A (690 V) 55 °C 6 A (690 V) Three Phase 4 kW (690 V) Three Phase 4 kW (690 V) Three Phase 4 kW (690 V) Three Phase 4 kW (690 V) Three Phase 4 kW (690 V) Three Phase 4 kW (690 V) Three Phase 4 kW (690 V) Three Phase 4 kW (690 V) Three Phase 4 kW (690 V) Three Phase 4 kW (690 V) Three Phase 4 kW (690 V) Three Phase 4 kW (690 V) Three Phase 4 kW (690 V) Three Phase 4 kW (690 V) Three Phase 4 kW (690 V) Three Phase 4 kW (690 V) Three Phase 4 kW (690 V) Three Phase 4 kW (100 V) C A (440 V AC) 3 A Actas NO 1 Number of Auxiliary 1 Contacts NO 1 Rated Operational Current (440 V AC) 3 A (240 V) 4 A (250 V) 2 A (380 / 400 V) 3 A (380 / 400 V) 3 A (380 / 400 V) 3	Number of Main Contacts NC	0
AC-1 (I _e) (220 / 240 V) 55 °C 16 A (380 / 440 V) 55 °C 16 A (380 / 440 V) 40 °C 20 A (380 / 440 V) 40 °C 20 A (690 V) 40 °C 6 A (690 V) 40 °C 6 A (690 V) 55 °C 6 A (690 V) 55 °C 6 A (690 V) 55 °C 6 A (600 V) Three Phase 2.2 kW (400 V) Three Phase 2.2 kW (400 V) Three Phase 4 kW (500 V) Three Phase 4 kW (500 V) Three Phase 4 kW (600 V) Three Phase 4 kW (600 V) Three Phase NO 3 kW Rated Short-time at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 64 A Withstand Current Low Voltage (I _{ow}) Number of Auxiliary Contacts NC Rated Operational Current (440 V AC) 3A C-15 (I _e) (440 V AC) 3A (380 / 440 V) 40 °C 20 A (380 / 440 V) 55 °C 6 A (380 / 440 V) 55 °C 6 A (380 / 440 V) 40 °C 20 A (380 / 440 V) 40 °C 20 A (24 V) 4 A (240 V) 40 °C 20 A (380 / 440 V) 55 °C 6 A (24 V) 4 A (240 V) 4 A (380 / 400 V) 3A (380 / 400 V) 3A Rated Operational Current (24 V) 2.5 A (380 / 400 V) 3A (380 / 400 V) 3A (380 / 400 V) 3A (380 / 400 V) 40 °C 20 A (380 / 400 V) 40 °C 20 °C A (380 / 400 V) 40 °C 20 °C A (380 / 400 V) 40 °C 20 °C A (380 / 400 V) 40 °C 20 °C A (380 / 400 V) 40 °C 20 °C A (380 / 400 V) 40 °C 20 °C A (380 / 400 V) 40 °C 20 °C A (380 / 400 V) 40 °C 20 °C A (380 / 400 V) 40 °C 20 °C A (380 / 400 V) 40 °C 20 °C A (380 / 400 V) 40 °C 20 °C A (380 / 400 V) 40 °C 20 °C A (380 / 400 V) 40 °C 20 °C A (380 / 400 V) 40 °C 20 °C A (380 / 400 V) 40 °C 20 °C A (380 / 400 V) 40 °C 20 °C A (380 / 400 V) 40 °C 20	Number of Main Contacts NO	3
Rated Operational Power (230 V) Three Phase 2.2 kW AC-3 (P _e) (400 V) Three Phase 2.2 kW (500 V) Three Phase 4 kW (500 V) Three Phase 4 kW (690 V) Three Phase, NO 3 kW Rated Short-time at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 64 A Withstand Current Low Voltage (I _{cw}) Number of Auxiliary Contacts NC Number of Auxiliary Contacts NO Rated Operational Current (440 V AC) 3 A (24 V) 4 A (38 V A C) (38 V A V) 3 A (38 V 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 Short-time at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 64 A Withstand Current Low Voltage (I _{cw}) Number of Auxiliary 0 Contacts NC 1 Number of Auxiliary 1 Contacts NO 1 Rated Operational Current (440 V AC) 3 A AC-15 (I _e) (120 V) 4 A (380 / 400 V) 3 A (380 / 400 V) 3 A Rated Operational Current (24 V) 2.5 A (110 V) 0.7 A (110 V) 0.7 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
Contacts NC 1 Number of Auxiliary Contacts NO 1 Rated Operational Current (440 V AC) 3 A AC-15 (I _e) (24 V) 4 A (120 V) 4 A (240 V) 4 A (500 V) 2 A (380 / 400 V) 3 A Rated Operational Current (24 V) 2.5 A DC-13 (I _e) (110 V) 0.7 A	Rated Short-time Withstand Current Low Voltage (I _{cw})	
Contacts NO (440 V AC) 3 A Rated Operational Current (24 V) 4 A AC-15 (l _e) (120 V) 4 A (120 V) 4 A (240 V) 4 A (500 V) 2 A (380 / 400 V) 3 A Rated Operational Current (24 V) 2.5 A DC-13 (l _e) (110 V) 0.7 A	Number of Auxiliary Contacts NC	0
AC-15 (I _e) (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) (110 V) 0.7 A	-	1
Rated Operational Current (24 V) 2.5 A DC-13 (I _e) (110 V) 0.7 A		(24 V) 4 A (120 V) 4 A (240 V) 4 A (500 V) 2 A
	Rated Operational Current DC-13 (I _e)	(24 V) 2.5 A (110 V) 0.7 A

Conventional Free-air Thermal Current (I_{th})

Main Circuit 20 A

Rated Control Circuit Voltage (U _c)	24 V DC
Coil Operating Limits	(acc. to IEC 60947-4-1) for DC supply 0.85 1.1 x Uc (at $\theta \le 55$ °C
Degree of Protection	Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20 Main Circuit Terminals IP20
Pollution Degree	
Mechanical Durability	1000000 cycle
Minimum Switching Capacity	Auxiliary Circuit 17 V Auxiliary Circuit 5 mA
Maximum Electrical Switching Frequency	(AC-1) 300 cycles per hou (AC-15) 600 cycles per hou (AC-3) 600 cycles per hou (DC-1) 600 cycles per hou (DC-13) 600 cycles per hou (DC-3) 600 cycles per hou
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
Power Loss	at Rated Operating Conditions per Pole 2 W at Rated Operating Conditions AC-1 per Pole 1 W
Standards	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1
Maximum Operating Voltage UL/CSA	Main Circuit 600 V AC
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
Horsepower Rating UL/CSA	(300 000 V AC) Three Phase 1.7 A (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
General Use Rating UL/CSA	(300 V AC) 12 A
Contact Rating UL/CSA	A600
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

Resistance to Vibrations acc. to IEC 60068-2-6

RoHS Status

Following EU Directive 2011/65/EU

Certificates and Declarations (Document Number)

CB Certificate	1SAA938000-2002
CQC Certificate	CQC2003010304064033
cURus Certificate	cUL_E191658
Declaration of Conformity - CCC	2020980304001854
Declaration of Conformity - CE	1SAD938517-0001
Declaration of Conformity - UKCA	1SAD938501-1001
DNV GL Certificate	1SAA938000-0306
EAC Certificate	1SAA920000-2702
Environmental Information	1SAC200067H0009
Instructions and Manuals	2CDC102046M6801
KC Certificate	1SAA938000-1501
RMRS Certificate	1SAA938000-0704
RoHS Information	1SAD938517-0001

Container Information

Package Level 1 Units	5 piece
Package Level 1 Width	115 mm
Package Level 1 Height	54 mm
Package Level 1 Depth / Length	280 mm
Package Level 1 Gross Weight	1.795 kg
Package Level 1 EAN	4013614415975

Classifications

Object Classification Code	Q
ETIM 4	EC000066 - Magnet contactor, AC-switching
ETIM 5	EC000010 - Starter combination
ETIM 6	EC000010 - Combination of contactors
ETIM 7	EC000010 - Combination of contactors
ETIM 8	EC000010 - Combination of contactors
eClass	V11.0 : 27371009
UNSPSC	39121529

Low Voltage Products and Systems \rightarrow Control Products \rightarrow Contactors \rightarrow Mini Contactors

