

VBC6A-30-01-03



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

General Information

Extended Product Type:	VBC6A-30-01-03
Product ID:	GJL1213911R0013
EAN:	4013614243172
Catalog Description:	VBC6A-30-01-03 Mini Reversing Contactor
Long Description:	The VBC6A-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 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.

Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85365080

Popular Downloads

Data Sheet, Technical Information:	1SBC100173C0201
Instructions and Manuals:	2CDC102046M6801
Dimension Diagram:	GJL1200447F0001

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

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):	Control Circuit DC Main Circuit 60 Hz Main Circuit 50 Hz Main Circuit DC
Rated Impulse Withstand Voltage (U_{imp}):	Main Circuit 6 kV
Rated Insulation Voltage (U_i):	690 V acc. to UL/CSA 600 V
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):	(220 / 230 / 240 V) 55 °C 9 A (380 / 400 V) 55 °C 8.5 A (440 V) 55 °C 8 A (500 V) 55 °C 5.5 A (690 V) 55 °C 3.5 A
Rated Operational Voltage:	Main Circuit 690 V AC
Conventional Free-air Thermal Current (I_{th}):	Main Circuit 20 A
Rated Control Circuit Voltage (U_c):	60 V DC
Coil Operating Limits:	(acc. to IEC 60947-4-1) for DC supply 0.85 ... 1.1 x U _c (at θ ≤ 55 °C)
Degree of Protection:	Control Circuit Terminals IP20 Main Circuit Terminals IP20
Mechanical Durability:	10000000 cycle
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
Tightening Torque:	Control Circuit 0.8 ... 1.1 N·m Main Circuit 0.8 ... 1.1 N·m
Wire Stripping Length:	Auxiliary Circuit 9 mm Main Circuit 9 mm
Mounting on DIN Rail:	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

Power Loss: at Rated Operating Conditions per Pole 2 W

Standards: IEC/EN 60947-1
IEC/EN 60947-4-1
IEC/EN 60947-5-1
UL 60947-1
UL 60947-4-1

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 2011/65/EU

Technical UL/CSA

**Maximum Operating Voltage
UL/CSA:** Main Circuit 600 V AC

Horsepower Rating UL/CSA: (208 V AC) Three Phase 1 Hp
(220 ... 240 V AC) Single Phase 0.5 Hp
(220 ... 240 V AC) Three Phase 2 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

**Connecting Capacity Main Circuit
UL/CSA:** Stranded 1/2x 22-10 AWG

**Connecting Capacity Auxiliary
Circuit UL/CSA:** 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

Certificates and Declarations (Document Number)

BV Certificate: 1SAA920000-0204

CB Certificate: 1SAA938000-2002

CCC Certificate: 1SAA938001-3804

cUL Certificate: cUL E191658

Declaration of Conformity - CE: 1SAD938512-0001

DNV GL Certificate: 1SAA938000-0306

EAC Certificate: 1SAA920000-2702

Instructions and Manuals:	2CDC102046M6801
KC Certificate:	1SAA938000-1501
LR Certificate:	1SAA938000-0504
RMRS Certificate:	1SAA938000-0704
RoHS Information:	1SAD938512-0001

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:	4013614416217

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
eClass:	7.0 27371009
UNSPSC:	39121529

