



 PRODUCT-DETAILS

VTBC7-30-01-55

VTBC7-30-01-55 Mini Reversing Contactor 50 ... 90 V DC - 3 NO - 0 NC - Screw Terminals



General Information

Extended Product Type	VTBC7-30-01-55
Product ID	GJL1313961R5015
EAN	4013614261442
Catalog Description	VTBC7-30-01-55 Mini Reversing Contactor 50 ... 90 V DC - 3 NO - 0 NC - Screw Terminals
Long Description	The VTBC7-30-01-55 mini reversing contactor is a compact 3 pole contactor with 1 auxiliary contact and a wider voltage range from 50 to 90VDC. They are ideally suited for applications where reliability is a must and space is at a premium. Mini reversing contactors for tractions are used in different railway applications for the control of three-phase loads up to 4 kW (AC-3). Attachable accessories include surge suppressor, front-mounted 2-pole auxiliary switches and connecting links.

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85365080

Popular Downloads

Data Sheet, Technical Information	1SBC100214C0201
CAD Dimensional Drawing	2CDC001079B0201

Dimensions

Product Net Width	96.2 mm
Product Net Height	57.5 mm
Product Net Depth / Length	46.7 mm
Product Net Weight	0.345 kg

Technical

Number of Poles	3
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
Rated Impulse Withstand Voltage (U_{imp})	Main Circuit 6 kV
Rated Insulation Voltage (U_i)	acc. to UL/CSA 600 V
Number of Main Contacts NC	0
Number of Main Contacts NO	3
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 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 Short-time Withstand Current Low Voltage (I_{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 96 A
Number of Auxiliary Contacts NC	1
Number of Auxiliary Contacts NO	0
Conventional Free-air Thermal Current (I_{th})	Main Circuit 20 A
Rated Control Circuit Voltage (U_c)	50 ... 90 V DC
Coil Operating Limits	(acc. to IEC 60947-4-1) for DC supply U_c Min. ... U_c Max. (at $\theta \leq 55$ °C)
Degree of Protection	Main Circuit Terminals IP20
Mechanical Durability	10000000 cycle
Minimum Switching Capacity	Auxiliary Circuit 17 V Auxiliary Circuit 5 mA
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
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
Tightening Torque	Control Circuit 0.8 ... 1.1 N·m Main Circuit 0.8 ... 1.1 N·m
Recommended Screw Driver	M3 Poqidriv 1
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 AC-1 per Pole 1.4 W
Standards	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1

Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 600 V AC
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Environmental

Ambient Air Temperature	Operation -30 ... +70 °C Storage -40 ... +85 °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

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

Environmental Product Declaration - EPD	1SAC200410H0001
End of Life Instructions	1SBC100156C0269

Certificates and Declarations

Declaration of Conformity - CE	1SAD101100-3101
Declaration of Conformity - UKCA	1SAD201100-3101
EAC Certificate	1SAA920000-2702
KC Certificate	1SAA938000-1501

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	4013614420078

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

Categories

Low Voltage Products and Systems → Control Products → Contactors → Mini Contactors

