



 PRODUCT-DETAILS

B6S-30-10-1.7-71

Mini Contactor B6S 24 V DC - 3 NO - 0 NC - Screw Terminals



General Information

Extended Product Type:	B6S-30-10-1.7-71
Product ID:	GJL1213001R7101
EAN:	4013614053030
Catalog Description:	Mini Contactor B6S 24 V DC - 3 NO - 0 NC - Screw Terminals
Long Description:	The B6S-30-10 mini contactor is a compact 3 pole contactor with 1 auxiliary contact and screw terminals. They are ideally suited for applications where reliability is a must and space is at a premium. Mini contactors are used in residential buildings, commercial buildings and industrial applications for the control of single or three-phase loads up to 4 kW (AC-3) and 20 A (AC-1) or switching of control signals. Due to the low coil consumption, this device can be directly controlled by a PLC. Further features are the noiseless and hum-free coil, the integrated protective circuit with diodes and additional overvoltage protection, a switch position indication and the integrated possibility for rail or wall mounting. The integrated surge suppressor saves time and costs by avoiding the need to install an external suppressor circuit.
Display Name:	B6S-30-10-1.7-71

Ordering

Minimum Order Quantity:	1 piece
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Customs Tariff Number: 85365080

Popular Downloads

EPLAN Data:	9AAC201022_EPLAN
Data Sheet, Technical Information:	1SBC100214C0202
Instructions and Manuals:	2CDC102047M6801
CAD Dimensional Drawing:	2CDC001079B0201

Dimensions

Product Net Width:	52.5 mm
Product Net Depth / Length:	46.7 mm
Product Net Height:	57.5 mm
Product Net Weight:	0.175 kg
Dimension Diagram:	GJL1200436F0001

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):	(24 V) 4 A (120 V) 4 A (500 V) 2 A (220 / 240 V) 4 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}):	Auxiliary Circuit 6 kV 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 50 Hz 1.7 V·A Average Pull-in Value 50 Hz 1.7 V·A
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:	Auxiliary Circuit 0.8 ... 1.1 N-m Control Circuit 0.8 ... 1.1 N-m Main Circuit 0.8 ... 1.1 N-m
Terminal Type:	Screw Terminals
Mini Contactor Type:	Interface Mini Contactor
Product Name:	Mini Contactor
Remarks:	No CA6 or CAF6 mountable

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

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:	1SBC100156C0270
Environmental Product Declaration - EPD:	1SAC200409H0001
Improved Energy Efficiency for Customers:	Product Efficiency - Product considered more energy-efficient compared to similar product on market or older products from the same line
Recyclability Rate of the Product acc. to EN45555:	Design for Closing Resource Loops - Standard EN45555 - 87.4 %

Certificates and Declarations

A2L Certificate – IEC:	1SAA938000-4601
BV Certificate:	1SAA920000-0204
CB Certificate:	1SAA938000-2002
Declaration of Conformity - CE:	1SAD101100-3101
Declaration of Conformity - UKCA:	1SAD201100-3101
DNV GL Certificate:	1SAA938000-0306
LR Certificate:	1SAA938000-0504
RMRS Certificate:	1SAA938000-0704
UL Certificate:	E191658-19881208

Container Information

Package Level 1 Units:	box 10 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:	1.82 kg
Package Level 1 EAN:	4013614414749

External Classifications and Standards

Object Classification Code:	Q
ETIM 7:	EC000066 - Power contactor, AC switching
ETIM 8:	EC000066 - Power contactor, AC switching

ETIM 9:	EC000066 - Power contactor, AC switching
eClass:	V11.0 : 27371003
UNSPSC:	39121529
IDEA Granular Category Code (IGCC):	4763 >> Power contactor, DC switching
E-Number (Finland):	3707470
E-Number (Norway):	4184130

Categories

Products > Low Voltage Products and Systems > Control Products > Contactors > Mini Contactors > B6/B7 Mini Contactor > BC6

