

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

General Information

Extended Product Type:	TBC7-30-10-51
Product ID:	GJL1313061R5101
EAN:	4013614224713
Catalog Description:	TBC7-30-10-51 Mini Contactor 17-32VDC
Long Description:	The TBC7-30-10 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 5.5 kW (AC-3) and 20 A / 690 V (AC-1) or switching of control signals. 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:	2CDC102001C0202

Dimensions

Product Net Width:	52.5 mm
Product Net Height:	46.5 mm
Product Net Depth:	57.5 mm
Product Net Weight:	0.185 kg

Technical

Number of Poles:	4
Mini Contactor Type:	Mini Contactor
Rated Operational Voltage:	Auxiliary Circuit 12 ... 240 V DC Auxiliary Circuit 12 ... 500 V AC/DC Main Circuit 12 ... 690 V AC/DC Main Circuit 690 V AC
Rated Frequency (f):	Control Circuit DC Main Circuit 60 Hz Main Circuit 50 Hz Main Circuit DC

Rated Impulse Withstand Voltage (U_{imp}):	Auxiliary Circuit 6 kV Main Circuit 6 kV
Rated Insulation Voltage (U_i):	690 V 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):	(220 / 230 / 240 V) 3 kW (400 V) 5.5 kW (400 V) Three Phase 5.5 kW (440 V) 5.5 kW (500 V) 5.5 kW (690 V) 3 kW
Rated Short-time Withstand Current (I_{cw}):	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 96 A
Number of Auxiliary Contacts NC:	0
Number of Auxiliary Contacts NO:	1
Rated Operational Current AC-15 (I_e):	(120 V) 4 A (220 / 240 V) 4 A (24 V) 4 A (380 / 400 V) 3 A (500 V) 2 A
Rated Operational Current DC-13 (I_e):	(110 V) 0.7 A (220 / 240 V) 0.4 A (24 V) 2.5 A
Conventional Free-air Thermal Current (I_{th}):	Main Circuit 20 A
Rated Control Circuit Voltage (U_c):	17 ... 32 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:	Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20 Main Circuit Terminals IP20
Mechanical Durability:	10000000 cycle
Minimum Switching Capacity:	17 V 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:	Auxiliary Circuit 0.8 ... 1.1 N·m Control Circuit 0.8 ... 1.1 N·m Main Circuit 0.8 ... 1.1 N·m
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
Remarks:	No CA6 or CAF6 mountable

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 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
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Full Load Amps Motor Use: (240 V AC) Single Phase 10 A
(440 ... 480 V AC) Three Phase 7.6 A

Horsepower Rating UL/CSA: (208 V AC) Three Phase 1 Hp
(220 ... 240 V AC) Single Phase 1.5 Hp
(220 ... 240 V AC) Three Phase 3 Hp
(440 ... 480 V AC) Three Phase 5 Hp
(550 ... 600 V AC) Three Phase 5 Hp

General Use Rating UL/CSA: (600 V AC) 16 A

Certificates and Declarations (Document Number)

Declaration of Conformity - CE: 1SAD938512-0001

EAC Certificate: 1SAA920000-2702

Instructions and Manuals: 2CDC102001C0202

KC Certificate: 1SAA938000-1501

RoHS Information: 1SAD938512-0001

Container Information

Package Level 1 Units: 10 piece

Package Level 1 Width: 115 mm

Package Level 1 Height: 54 mm

Package Level 1 Length: 280 mm

Package Level 1 Gross Weight: 1.92 kg

Package Level 1 EAN: 4013614418822

Classifications

Object Classification Code: Q

ETIM 4: EC000066 - Magnet contactor, AC-switching

ETIM 5: EC000066 - Magnet contactor, AC-switching

ETIM 6: EC000066 - Power contactor, AC switching

ETIM 7: EC000066 - Power contactor, AC switching

eClass: 7.0 27371003

UNSPSC: 39121529

Accessories

Identifier	Description	Type	Qty	Unit Of Measure
GJL1201317R0002	CA6-11E Auxiliary Contact	CA6-11E	1	piece
GJL1201317R0003	CA6-11M Auxiliary Contact	CA6-11M	1	piece
GJL1201317R0004	CA6-11N Auxiliary Contact	CA6-11N	1	piece

Identifier	Description	Type	Qty	Unit Of Measure
GJL1201330R0002	CAF6-11E Auxiliary Contact	CAF6-11E	1	piece
GJL1201330R0003	CAF6-11M Auxiliary Contact	CAF6-11M	1	piece
GJL1201330R0004	CAF6-11N Auxiliary Contact	CAF6-11N	1	piece
GJL1201330R0006	CAF6-20E Auxiliary Contact	CAF6-20E	1	piece
GJL1201330R0007	CAF6-20M Auxiliary Contact	CAF6-20M	1	piece
GJL1201330R0008	CAF6-20N Auxiliary Contact	CAF6-20N	1	piece
GJL1201330R0010	CAF6-02E Auxiliary Contact	CAF6-02E	1	piece
GJL1201330R0011	CAF6-02M Auxiliary Contact	CAF6-02M	1	piece
GJL1201330R0012	CAF6-02N Auxiliary Contact	CAF6-02N	1	piece
GJL1201904R0001	BN6 Plunger	BN6	1	piece
GJL1201906R0001	LT6-B Cover Cap	LT6-B	1	piece
GJL1201907R0001	LP6 Connecting Link	LP6	1	piece

