TBC7-31-00-62



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

General Information

Extended Product Type: TBC7-31-00-62

Product ID: GJL1313461R6002

EAN: 4013614264283

Catalog Description: TBC7-31-00-62 Mini Contactor 77-143VDC

Long Description: The TBC7-31-00 mini contactor is a compact 4 pole contactor with screw t

erminals. They are ideally suited for applications where reliability is a must and space is at a premium. Mini contactors are used in residential bulding s, 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 m

ounting.

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:

Mini Contactor Type: Mini Contactor

Rated Operational Voltage: 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}):

Main Circuit 6 kV

Rated Insulation Voltage (U _i):	690 V				
	acc. to UL/CSA 600 V				
Number of Main Contacts NC:	1				
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:	0				
Conventional Free-air Thermal Current (I _{th}):	Main Circuit 20 A				
Rated Control Circuit Voltage (U _c):	110 V DC				
Coil Operating Limits:	(acc. to IEC 60947-4-1) for DC supply Uc Min Uc Max. (at $\theta \le 55$ °C)				
Degree of Protection:	Control Circuit Terminals IP20 Main Circuit Terminals IP20				
Mechanical Durability:	10000000 cycle				
Maximum Electrical Switching Frequency:	AC-1 300 cycles per hour AC-15 360 cycles per hour AC-3 600 cycles per hour DC-1 600 cycles per hour DC-13 360 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				

Wire Stripping Length:	Main Circuit 9 mm				
Tightening Torque:	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				
nvironmental					
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				
echnical UL/CSA					
Maximum Operating Voltage UL/CSA:	Main Circuit 600 V AC				
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:	4013614419034

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
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

