General Information

Extended Product Type:
BC6-30-10-01

Product ID:
GJL1213001R0101

EAN:
4013614052880

Catalog Description:
BC6-30-10-01 Mini Contactor

Long Description:
The BC6-30-10 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 buldings, commercial buildings and industrial applications for the control of single or three-phase loads up to 4 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.



Dimensions

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

Container Information

Package Level 1 Units:
10 piece
Package Level 1 Width:
115.0 mm
Package Level 1 Height:
54.0 mm
Package Level 1 Length:
280.0 mm
Package Level 1 Gross Weight:
1.820 kg
Package Level 1 EAN:
4013614414541

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 V
Main Circuit 12 ... 690 V AC DC V
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):
(220/240V) 40°C 20 A
(220/240V) 55°C 16 A
(380/440V) 40°C 20 A
(380/440V) 55°C 16 A
(690V) 40°C 6 A
(690V) 55°C 6 A
Rated Operational Power AC-3 (P_e):
(220 / 230 / 240V) 2.20 kW
(400V) 4.00 kW
(400V) Three Phase 4.00 kW
(440V) 4.00 kW
(500V) 4.00 kW
(690V) 3.00 kW
Rated Short-time Withstand Current (I_{cw}):
at 40°C Ambient Temp, in Free Air, from a Cold State 10s 64 A
Number of Auxiliary Contacts NC:
0
Number of Auxiliary Contacts NO:
1

Conventional Free-air Thermal Current (I_{th}):
Main Circuit 20.00 A
Rated Control Circuit Voltage (U_c):
24 V DC
Coil Operating Limits:
(acc. to IEC 60947-4-1) for DC supply 0.85 ... 1.1 x Uc (at θ ≤ 55 °C)
Degree of Protection:
Auxiliary Circuit Terminals IP20
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 mm²
Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm²
Flexible 1/2x 1 ... 2.5 mm²
Rigid 1/2x 1 ... 4 mm²
Connecting Capacity-Auxiliary Circuit:
Flexible with Ferrule 1/2x 1 ... 2.5 mm²
Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm²
Flexible 1/2x 1 ... 2.5 mm²
Rigid 1/2x 1 ... 4 mm²
Connecting Capacity-Control Circuit:
Flexible with Ferrule 1/2x 1 ... 2.5 mm²
Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm²
Flexible 1/2x 1 ... 2.5 mm²
Rigid 1/2x 1 ... 4 mm²
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:
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 2002/95/EC August 18, 2005 and amendment

Technical UL/CSA

Maximum Operating Voltage UL/CSA:
Main Circuit 600 V AC
Connecting Capacity-Main Circuit UL/CSA:
Stranded 1/2x 22 ... 10 AWG
Connecting Capacity-Auxiliary Circuit UL/CSA:
Stranded 1/2x 22 ... 10 AWG
Horse Power Rating UL/CSA:
208V AC Three Phase 1.00 Hp
220 ... 240V AC Three Phase 2.00 Hp
440 ... 480V AC Three Phase 3.00 Hp
550 ... 600V AC Three Phase 1.00 Hp
Tightening Torque UL/CSA:
Auxiliary Circuit 7 in·lb
Control Circuit 7 in·lb
Main Circuit 7 in·lb
General Use Rating UL/CSA:
300V AC 12.00 A

Certificates and Declarations (Document Number)

BV Certificate:
1SAA938000-0203
CB Certificate:
1SAA938000-2002
CCC Certificate:
1SAA938001-3804
cUL Certificate:
1SAA938003-1701
Declaration of Conformity - CE:
1SAD938510-0001
DNV Certificate:
1SAA938000-0305
EAC Certificate:
1SAA920000-2702
GL Certificate:
1SAA938000-0403
LR Certificate:
1SAA938000-0503
RMRS Certificate:
1SAA938000-0703
RoHS Information:
1SAA938001-4402
UL Certificate:
1SAA938000-1604

Classifications

eClass:
7.0 27371003
Object Classification Code:
Q
E-nummer:
3210051
ETIM 4.0:
EC000066 - Magnet contactor, AC-switching
ETIM 5.0:
EC000066 - Magnet contactor, AC-switching
UNSPSC:
39121529