

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

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Parts & Services → Medium Voltage Products and Systems → Switchgear and Motor Control → Secondary Switchgear → Gas Insulated Ring Main Units → SafeRing Air

Parts & Services → Medium Voltage Products and Systems → Switchgear and Motor Control → Secondary Switchgear → Gas Insulated Ring Main Units → SafeRing AirPlus

Parts & Services → Medium Voltage Products and Systems → Switchgear and Motor Control → Secondary Switchgear → Gas Insulated Secondary Switchgear → SafePlus

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Parts & Services → Medium Voltage Products and Systems → Switchgear and Motor Control → Secondary Switchgear → Gas Insulated Secondary Switchgear → SafePlus Air

General Information

Extended Product Type:	B6-30-10-80
Product ID:	GJL1211001R8100
EAN:	4013614150647
Catalog Description:	B6-30-10-80 Mini Contactor 220-240V 40-450Hz
Long Description:	The B6-30-10 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 in 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 silent coil, a switch position indication and the integrated possibility for rail or wall mounting.

Additional Information

Ambient Air Temperature:	Operation -25 ... +55 °C Storage -40 ... +80 °C
BV Certificate:	1SAA920000-0204
CB Certificate:	1SAA938000-2002
CCC Certificate:	1SAA938001-3804
Co-ordination with Short-Circuit Protective Devices - Type 1:	gG Type Fuses 25 A
Co-ordination with Short-Circuit Protective Devices - Type 2:	gG Type Fuses 20 A
Coil Consumption:	Average Holding Value 50 Hz 3.5 V·A Average Pull-in Value 50 Hz 3.5 V·A
Coil Operating Limits:	(acc. to IEC 60947-4-1) for AC supply 0.85 ... 1.1 x U _c (at θ ≤ 55 °C)
Connecting Capacity Auxiliary Circuit UL/CSA:	Stranded 1/2x 22-10 AWG
Connecting Capacity Main Circuit UL/CSA:	Stranded 1/2x 22-10 AWG
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

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
Conventional Free-air Thermal Current (I_{th}):	Main Circuit 20 A
Country of Origin:	Germany (DE)
Customs Tariff Number:	85365080
Data Sheet, Technical Information:	1SBC100173C0201
Declaration of Conformity - CE:	1SAD938512-0001
Degree of Protection:	Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20 Main Circuit Terminals IP20
Dimension Diagram:	GJL1200436F0001
E-number:	3210024
EAC Certificate:	1SAA920000-2702
EAN:	4013614150647
EPLAN Catalog Tree:	Electrical engineering / Relays, contactors / Contactors
EPLAN Function Definition:	Coil / Coil, 2 connection points / Coil for power contactor A1_A2 NO contact / NO contact, 2 connection points / NO auxiliary contact 13_14 NO contact / NO contact, 2 connection points / Power NO contact 1_2 NO contact / NO contact, 2 connection points / Power NO contact 3_4 NO contact / NO contact, 2 connection points / Power NO contact 5_6
ETIM 4:	EC000066 - Magnet contactor, AC-switching
ETIM 5:	EC000066 - Magnet contactor, AC-switching
ETIM 6:	EC000066 - Power contactor, AC switching
Environmental Information:	1SAA938002-2401
Full Load Amps Motor Use:	(240 V AC) Single Phase 4.9 A (440 ... 480 V AC) Three Phase 4.8 A
General Use Rating UL/CSA:	(300 V AC) 12 A
Horsepower Rating UL/CSA:	(208 V AC) Three Phase 1 Hp (220 ... 240 V AC) Single Phase 0.5 Hp (220 ... 240 V AC) Three Phase 2 Hp (440 ... 480 V AC) Three Phase 3 Hp (550 ... 600 V AC) Three Phase 1 Hp
IIT Publishing Status:	Level 0 - Information enabled
Industrial IT Certification Level:	0
Instructions and Manuals:	2CDC102047M6801
Invoice Description:	B6-30-10-80 Mini Contactor 220-240V 40-450Hz
LR Certificate:	1SAA938000-0504
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
Maximum Operating Altitude Permissible:	2000 m
Maximum Operating Voltage UL/CSA:	Main Circuit 600 V AC Auxiliary Circuit 600 V AC/DC
Mechanical Durability:	10000000 cycle
Mini Contactor Type:	Mini Contactor
Minimum Order Quantity:	1 piece
Minimum Switching Capacity:	17 V 5 mA

Mounting Position:	Any, Position 1-6
Mounting Type:	DIN-rail; Screw
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
Number of Auxiliary Contacts NC:	0
Number of Auxiliary Contacts NO:	1
Number of Main Contacts NC:	0
Number of Main Contacts NO:	3
Number of Poles:	4
Object Classification Code:	Q
Package Level 1 EAN:	4013614412677
Package Level 1 Gross Weight:	1.82 kg
Package Level 1 Height:	54 mm
Package Level 1 Length:	280 mm
Package Level 1 Units:	10 piece
Package Level 1 Width:	115 mm
Power Loss:	at Rated Operating Conditions per Pole 2 W
Product Main Type:	B6
Product Name:	Mini Contactor
Product Net Depth:	46.5 mm
Product Net Height:	57.5 mm
Product Net Weight:	0.175 kg
Product Net Width:	52.5 mm
RMRS Certificate:	1SAA938000-0704
Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1:	8 x I _e / AC-3
Rated Control Circuit Voltage (U_c):	220 ... 240 V AC
Rated Frequency (f):	Control Circuit 400 Hz Control Circuit 50 Hz Control Circuit 60 Hz 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
Rated Making Capacity AC-3 acc. to IEC 60947-4-1:	10 x I _e / AC-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 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 AC-3 (I_e):	(220 / 230 / 240 V) 55 °C 8.5 A (380 / 400 V) 55 °C 8.5 A (440 V) 55 °C 7.4 A (500 V) 55 °C 6.8 A (690 V) 55 °C 6.8 A

	(690 V) 55 °C 3.8 A
Rated Operational Current DC-13 (I_o):	(110 V) 0.7 A (220 / 240 V) 0.4 A (24 V) 2.5 A
Rated Operational Power AC-3 (P_e):	(220 / 230 / 240 V) 2.2 kW (400 V) 4 kW (400 V) Three Phase 4 kW (440 V) 4 kW (500 V) 4 kW (690 V) 3 kW
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 Short-time Withstand Current (I_{cw}):	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 64 A
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 Date:	0056
RoHS Information:	1SAD938512-0001
RoHS Status:	Following EU Directive 2011/65/EC
Selling Unit of Measure:	piece
Short Description:	B6-30-10-80 Mini Contactor
Short-Circuit Protective Devices:	gG Type Fuses Type 1 25 A
Standards:	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1
Terminal Type:	Screw Terminals
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
Tightening Torque UL/CSA:	Auxiliary Circuit 7 in·lb Control Circuit 7 in·lb Main Circuit 7 in·lb
UNSPSC:	39121529
Wire Stripping Length:	Auxiliary Circuit 9 mm Main Circuit 9 mm
cUL Certificate:	cUL E191658
eClass:	7.0 27371003
DNV GL Certificate:	1SAA938000-0306
KC Certificate:	1SAA938000-1501

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

Identifier	Description	Type	Qty	Unit Of Measure
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

Product specific part data

Category	Switchgear Part Category
SafePlus	Auxiliary Contactor
SafeRing	Auxiliary Contactor
SafeRing 36	Auxiliary Contactor
SafePlus 36	Auxiliary Contactor
SafeRing Air	Auxiliary Contactor
SafePlus Air	Auxiliary Contactor
SafeRing AirPlus	Auxiliary Contactor

