

Products Low Voltage Products and Systems Control Products Contactors Mini Contactors

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

Parts & Services Medium Voltage Products and Systems Switchgear and Motor Control Secondary Switchgear  
Gas Insulated Ring Main Units SafeRing 36

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

Parts & Services Medium Voltage Products and Systems Switchgear and Motor Control Secondary Switchgear  
Gas Insulated Secondary Switchgear SafePlus 36

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

## General Information

<b>Extended Product Type:</b>	B6-30-10-80
<b>Product ID:</b>	GJL1211001R8100
<b>EAN:</b>	4013614150647
<b>Catalog Description:</b>	B6-30-10-80 Mini Contactor 220-240V 40-450Hz
<b>Long Description:</b>	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

<b>Ambient Air Temperature:</b>	Operation -25 ... +55 °C Storage -40 ... +80 °C
<b>BV Certificate:</b>	1SAA920000-0204
<b>CB Certificate:</b>	1SAA938000-2002
<b>CCC Certificate:</b>	1SAA938001-3804
<b>Co-ordination with Short-Circuit Protective Devices - Type 1:</b>	gG Type Fuses 25 A
<b>Co-ordination with Short-Circuit Protective Devices - Type 2:</b>	gG Type Fuses 20 A
<b>Coil Consumption:</b>	Average Holding Value 50 Hz 3.5 V·A Average Pull-in Value 50 Hz 3.5 V·A
<b>Coil Operating Limits:</b>	(acc. to IEC 60947-4-1) for AC supply 0.85 ... 1.1 x U <sub>c</sub> (at $\theta \leq 55$ °C)
<b>Connecting Capacity Auxiliary Circuit UL/CSA:</b>	Stranded 1/2x 22-10 AWG
<b>Connecting Capacity Main Circuit UL/CSA:</b>	Stranded 1/2x 22-10 AWG
<b>Connecting Capacity Auxiliary Circuit:</b>	Flexible with Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup> Flexible 1/2x 1 ... 2.5 mm <sup>2</sup> Rigid 1/2x 1 ... 4 mm <sup>2</sup>
<b>Connecting Capacity Control Circuit:</b>	Flexible with Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup> Flexible 1/2x 1 ... 2.5 mm <sup>2</sup> Rigid 1/2x 1 ... 4 mm <sup>2</sup>

<b>Connecting Capacity Main Circuit:</b>	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
<b>Conventional Free-air Thermal Current (I<sub>th</sub>):</b>	Main Circuit 20 A
<b>Country of Origin:</b>	Germany (DE)
<b>Customs Tariff Number:</b>	85365080
<b>Data Sheet, Technical Information:</b>	1SBC100173C0201
<b>Declaration of Conformity - CE:</b>	1SAD938510-0001
<b>Degree of Protection:</b>	Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20 Main Circuit Terminals IP20
<b>Dimension Diagram:</b>	GJL1200436F0001
<b>E-nummer:</b>	3210024
<b>EAC Certificate:</b>	1SAA920000-2702
<b>EAN:</b>	4013614150647
<b>EPLAN Catalog Tree:</b>	Electrical engineering / Relays, contactors / Contactors
<b>EPLAN Function Definition:</b>	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
<b>ETIM 4:</b>	EC000066 - Magnet contactor, AC-switching
<b>ETIM 5:</b>	EC000066 - Magnet contactor, AC-switching
<b>ETIM 6:</b>	EC000066 - Power contactor, AC switching
<b>Environmental Information:</b>	1SAA938002-2401
<b>Full Load Amps Motor Use:</b>	(240 V AC) Single Phase 4.9 A (440 ... 480 V AC) Three Phase 4.8 A
<b>General Use Rating UL/CSA:</b>	(300 V AC) 12 A
<b>Horsepower Rating UL/CSA:</b>	(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
<b>IIT Publishing Status:</b>	Level 0 - Information enabled
<b>Industrial IT Certification Level:</b>	0
<b>Instructions and Manuals:</b>	2CDC102047M6801
<b>Invoice Description:</b>	B6-30-10-80 Mini Contactor 220-240V 40-450Hz
<b>LR Certificate:</b>	1SAA938000-0504
<b>Maximum Electrical Switching Frequency:</b>	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
<b>Maximum Operating Altitude Permissible:</b>	2000 m
<b>Maximum Operating Voltage UL/CSA:</b>	Main Circuit 600 V AC Auxiliary Circuit 600 V AC/DC
<b>Mechanical Durability:</b>	10000000 cycle
<b>Mini Contactor Type:</b>	Mini Contactor
<b>Minimum Order Quantity:</b>	1 piece
<b>Minimum Switching Capacity:</b>	17 V 5 mA

<b>Mounting Position:</b>	Any, Position 1-6
<b>Mounting on DIN Rail:</b>	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
<b>Number of Auxiliary Contacts NC:</b>	0
<b>Number of Auxiliary Contacts NO:</b>	1
<b>Number of Main Contacts NC:</b>	0
<b>Number of Main Contacts NO:</b>	3
<b>Number of Poles:</b>	4
<b>Object Classification Code:</b>	Q
<b>Package Level 1 EAN:</b>	4013614412677
<b>Package Level 1 Gross Weight:</b>	1.82 kg
<b>Package Level 1 Height:</b>	54 mm
<b>Package Level 1 Length:</b>	280 mm
<b>Package Level 1 Units:</b>	10 piece
<b>Package Level 1 Width:</b>	115 mm
<b>Power Loss:</b>	at Rated Operating Conditions per Pole 2 W
<b>Product Main Type:</b>	B6
<b>Product Name:</b>	Mini Contactor
<b>Product Net Depth:</b>	46.5 mm
<b>Product Net Height:</b>	57.5 mm
<b>Product Net Weight:</b>	0.175 kg
<b>Product Net Width:</b>	52.5 mm
<b>RMRS Certificate:</b>	1SAA938000-0704
<b>Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1:</b>	8 x I <sub>e</sub> / AC-3
<b>Rated Control Circuit Voltage (U<sub>c</sub>):</b>	220 ... 240 V AC
<b>Rated Frequency (f):</b>	Control Circuit 400 Hz Control Circuit 50 Hz Control Circuit 60 Hz Main Circuit 60 Hz Main Circuit 50 Hz Main Circuit DC
<b>Rated Impulse Withstand Voltage (U<sub>imp</sub>):</b>	Auxiliary Circuit 6 kV Main Circuit 6 kV
<b>Rated Insulation Voltage (U<sub>i</sub>):</b>	690 V acc. to UL/CSA 600 V
<b>Rated Making Capacity AC-3 acc. to IEC 60947-4-1:</b>	10 x I <sub>e</sub> / AC-3
<b>Rated Operational Current AC-1 (I<sub>e</sub>):</b>	(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
<b>Rated Operational Current AC-15 (I<sub>e</sub>):</b>	(120 V) 4 A (220 / 240 V) 4 A (24 V) 4 A (380 / 400 V) 3 A (500 V) 2 A
<b>Rated Operational Current AC-3 (I<sub>e</sub>):</b>	(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 3.8 A
<b>Rated Operational Current DC 13 (I<sub>e</sub>):</b>	(440 V) 3.7 A

<b>Rated Operational Current AC-13 (I<sub>e</sub>):</b>	(110 V) 0.7 A (220 / 240 V) 0.4 A (24 V) 2.5 A
<b>Rated Operational Power AC-3 (P<sub>e</sub>):</b>	(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
<b>Rated Operational Voltage:</b>	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
<b>Rated Short-time Withstand Current (I<sub>cs</sub>):</b>	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 64 A
<b>Resistance to Shock acc. to IEC 60068-2-27:</b>	11 ms Pulse 15g
<b>Resistance to Vibrations acc. to IEC 60068-2-6:</b>	5g / 5 ... 150 Hz
<b>RoHS Date:</b>	0056
<b>RoHS Information:</b>	1SAA938001-4402
<b>RoHS Status:</b>	Following EU Directive 2002/95/EC August 18, 2005 and amendment
<b>Selling Unit of Measure:</b>	piece
<b>Short Description:</b>	B6-30-10-80 Mini Contactor
<b>Standards:</b>	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1
<b>Terminal Type:</b>	Screw Terminals
<b>Tightening Torque:</b>	Auxiliary Circuit 0.8 ... 1.1 N·m Control Circuit 0.8 ... 1.1 N·m Main Circuit 0.8 ... 1.1 N·m
<b>Tightening Torque UL/CSA:</b>	Auxiliary Circuit 7 in·lb Control Circuit 7 in·lb Main Circuit 7 in·lb
<b>UNSPSC:</b>	39121529
<b>Wire Stripping Length:</b>	Auxiliary Circuit 9 mm Main Circuit 9 mm
<b>cUL Certificate:</b>	cUL E191658
<b>eClass:</b>	7.0 27371003
<b>DNV GL Certificate:</b>	1SAA938000-0306
<b>KC Certificate:</b>	1SAA938000-1501

#### Accessories

#### 15 Products

Filter

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

Identifier	Description	Type	Qty	Unit Of Measure
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

7 Products

Filter

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

