

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

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 buldings, commercial buildings and industrial applications for th e 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.

Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85365080

Popular Downloads

Data Sheet, Technical Information:	1SBC100173C0201
Instructions and Manuals:	2CDC102047M6801
Dimension Diagram:	GJL1200436F0001

## Dimensions

<b>Product Net Width:</b>	52.5 mm
<b>Product Net Height:</b>	57.5 mm
<b>Product Net Depth / Length:</b>	46.5 mm
<b>Product Net Weight:</b>	0.175 kg

## Technical

<b>Number of Poles:</b>	4
<b>Mini Contactor Type:</b>	Mini Contactor
<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 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>Number of Main Contacts NC:</b>	0
<b>Number of Main Contacts NO:</b>	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 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 Short-time Withstand Current (I<sub>cw</sub>):</b>	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 64 A
<b>Number of Auxiliary Contacts NC:</b>	0
<b>Number of Auxiliary Contacts NO:</b>	1

<b>Rated Operational Current AC-15</b> <b>(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 DC-13</b> <b>(I<sub>e</sub>):</b>	(110 V) 0.7 A (220 / 240 V) 0.4 A (24 V) 2.5 A
<b>Conventional Free-air Thermal Current (I<sub>th</sub>):</b>	Main Circuit 20 A
<b>Rated Control Circuit Voltage (U<sub>c</sub>):</b>	220 ... 240 V AC
<b>Coil Operating Limits:</b>	(acc. to IEC 60947-4-1) for AC supply 0.85 ... 1.1 x U <sub>c</sub> (at $\theta \leq 55\text{ °C}$ )
<b>Degree of Protection:</b>	Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20 Main Circuit Terminals IP20
<b>Mechanical Durability:</b>	10000000 cycle
<b>Minimum Switching Capacity:</b>	Auxiliary Circuit 17 V Auxiliary Circuit 5 mA
<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>Connecting Capacity Main 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 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>Wire Stripping Length:</b>	Auxiliary Circuit 9 mm Main Circuit 9 mm
<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>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>Power Loss:</b>	at Rated Operating Conditions per Pole 2 W

<b>Standards:</b>	IEC/EN 60947-1
	IEC/EN 60947-4-1
	IEC/EN 60947-5-1
	UL 60947-1
	UL 60947-4-1

## Environmental

<b>Ambient Air Temperature:</b>	Operation -25 ... +55 °C Storage -40 ... +80 °C
<b>Maximum Operating Altitude Permissible:</b>	2000 m
<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 Status:</b>	Following EU Directive 2011/65/EU

## Technical UL/CSA

<b>Maximum Operating Voltage UL/CSA:</b>	Main Circuit 600 V AC Auxiliary Circuit 600 V AC/DC
<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>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>General Use Rating UL/CSA:</b>	(300 V AC) 12 A
<b>Connecting Capacity Main Circuit UL/CSA:</b>	Stranded 1/2x 22-10 AWG
<b>Connecting Capacity Auxiliary Circuit UL/CSA:</b>	Stranded 1/2x 22-10 AWG
<b>Tightening Torque UL/CSA:</b>	Auxiliary Circuit 7 in·lb Control Circuit 7 in·lb Main Circuit 7 in·lb

## Certificates and Declarations (Document Number)

<b>BV Certificate:</b>	1SAA920000-0204
<b>CB Certificate:</b>	1SAA938000-2002
<b>CCC Certificate:</b>	1SAA938001-3805
<b>cUL Certificate:</b>	cUL E191658
<b>Declaration of Conformity - CE:</b>	1SAD938512-0001
<b>DNV GL Certificate:</b>	1SAA938000-0306

<b>EAC Certificate:</b>	1SAA920000-2702
<b>Instructions and Manuals:</b>	2CDC102047M6801
<b>KC Certificate:</b>	1SAA938000-1501
<b>LR Certificate:</b>	1SAA938000-0504
<b>RMRS Certificate:</b>	1SAA938000-0704
<b>RoHS Information:</b>	1SAD938512-0001

## Container Information

<b>Package Level 1 Units:</b>	10 piece
<b>Package Level 1 Width:</b>	115 mm
<b>Package Level 1 Height:</b>	54 mm
<b>Package Level 1 Depth / Length:</b>	280 mm
<b>Package Level 1 Gross Weight:</b>	1.82 kg
<b>Package Level 1 EAN:</b>	4013614412677

## Classifications

<b>Object Classification Code:</b>	Q
<b>E-nummer:</b>	3210024
<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>ETIM 7:</b>	EC000066 - Power contactor, AC switching
<b>eClass:</b>	7.0 27371003
<b>UNSPSC:</b>	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

Identifier	Description	Type	Qty	Unit Of Measure
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 Motor
SafeRing	Auxiliary Contactor Motor
SafeRing 36	Auxiliary Contactor Motor
SafePlus 36	Auxiliary Contactor Motor
SafeRing Air	Auxiliary Contactor Motor
SafePlus Air	Motor Auxiliary Contactor
SafeRing AirPlus	Auxiliary Contactor Motor

