

## PRODUCT-DETAILS

# B6-30-10-80

## B6-30-10-80 Mini Contactor 220-240V 40-450Hz



### Informações gerais

|                          |                                              |
|--------------------------|----------------------------------------------|
| Tipo de produto alargado | B6-30-10-80                                  |
| ID do produto            | GJL1211001R8100                              |
| EAN                      | 4013614150647                                |
| Descrição do catálogo    | B6-30-10-80 Mini Contactor 220-240V 40-450Hz |

#### Descrição longa

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 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.

### Ordering

|                                |          |
|--------------------------------|----------|
| Quantidade Mínima de Encomenda | 1 piece  |
| Número de tarifa aduaneira     | 85365080 |

### Popular Downloads

|                                    |                 |
|------------------------------------|-----------------|
| Ficha de dados, informação técnica | 1SBC100214C0202 |
|------------------------------------|-----------------|

## Dimensions

|                                              |          |
|----------------------------------------------|----------|
| Largura Líquida do Produto                   | 52.5 mm  |
| Altura Líquida do Produto                    | 57.5 mm  |
| Profundidade/Comprimento Líquidos do Produto | 46.7 mm  |
| Peso Líquido do Produto                      | 0.175 kg |

## Technical

|                                                             |                                                                                                                                                        |
|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Número de polos                                             | 3                                                                                                                                                      |
| Mini Contactor Type                                         | Mini Contactor                                                                                                                                         |
| Tensão operacional nominal                                  | Auxiliary Circuit 690 V AC<br>Auxiliary Circuit 250 V DC<br>Main Circuit 690 V AC<br>Main Circuit 220 V DC                                             |
| Frequência nominal (f)                                      | Control Circuit 400 Hz<br>Control Circuit 50 Hz<br>Control Circuit 60 Hz<br>Main Circuit 60 Hz<br>Main Circuit 50 Hz<br>Main Circuit DC                |
| Rated Impulse Withstand Voltage ( $U_{imp}$ )               | Auxiliary Circuit 6 kV<br>Main Circuit 6 kV                                                                                                            |
| Rated Insulation Voltage ( $U_i$ )                          | 690 V<br>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 / 240 V) 40 °C 20 A<br>(220 / 240 V) 55 °C 16 A<br>(380 / 440 V) 40 °C 20 A<br>(380 / 440 V) 55 °C 16 A<br>(690 V) 40 °C 6 A<br>(690 V) 55 °C 6 A |
| Rated Operational Power AC-3 ( $P_e$ )                      | (230 V) Three Phase 2.2 kW<br>(400 V) Three Phase 4 kW<br>(500 V) Three Phase 4 kW<br>(690 V) Three Phase, NO 3 kW                                     |
| Rated Short-time Withstand Current Low Voltage ( $I_{cw}$ ) | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 64 A                                                                                        |
| Number of Auxiliary Contacts NC                             | 0                                                                                                                                                      |
| Number of Auxiliary Contacts NO                             | 1                                                                                                                                                      |
| Rated Operational Current AC-15 ( $I_e$ )                   | (24 V) 4 A<br>(120 V) 4 A<br>(500 V) 2 A<br>(220 / 240 V) 4 A<br>(380 / 400 V) 3 A                                                                     |
| Rated Operational Current                                   | (24 V) 2.5 A                                                                                                                                           |

|                                                    |                                                                                                                                                                                                         |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DC-13 ( $I_{\theta}$ )                             | (110 V) 0.7 A<br>(220 / 240 V) 0.4 A                                                                                                                                                                    |
| Conventional Free-air Thermal Current ( $I_{th}$ ) | Main Circuit 20 A                                                                                                                                                                                       |
| Rated Control Circuit Voltage ( $U_c$ )            | 220 ... 240 V AC                                                                                                                                                                                        |
| Coil Operating Limits                              | (acc. to IEC 60947-4-1) for AC supply 0.85 ... 1.1 x $U_c$ (at $\theta \leq 55^\circ\text{C}$ )                                                                                                         |
| Grau de proteção                                   | Auxiliary Circuit Terminals IP20<br>Control Circuit Terminals IP20<br>Main Circuit Terminals IP20                                                                                                       |
| Mechanical Durability                              | 10000000 cycle                                                                                                                                                                                          |
| Minimum Switching Capacity                         | Auxiliary Circuit 17 V<br>Auxiliary Circuit 5 mA                                                                                                                                                        |
| Maximum Electrical Switching Frequency             | (AC-1) 300 cycles per hour<br>(AC-15) 600 cycles per hour<br>(AC-3) 600 cycles per hour<br>(DC-1) 600 cycles per hour<br>(DC-13) 600 cycles per hour<br>(DC-3) 600 cycles per hour                      |
| Connecting Capacity Main Circuit                   | Flexible with Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup><br>Flexible 1/2x 1 ... 2.5 mm <sup>2</sup><br>Rigid 1/2x 1 ... 4 mm <sup>2</sup> |
| Connecting Capacity Auxiliary Circuit              | Flexible with Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup><br>Flexible 1/2x 1 ... 2.5 mm <sup>2</sup><br>Rigid 1/2x 1 ... 4 mm <sup>2</sup> |
| Connecting Capacity Control Circuit                | Flexible with Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup><br>Flexible 1/2x 1 ... 2.5 mm <sup>2</sup><br>Rigid 1/2x 1 ... 4 mm <sup>2</sup> |
| Wire Stripping Length                              | Auxiliary Circuit 9 mm<br>Main Circuit 9 mm                                                                                                                                                             |
| Binário de aperto                                  | Auxiliary Circuit 0.8 ... 1.1 N·m<br>Control Circuit 0.8 ... 1.1 N·m<br>Main Circuit 0.8 ... 1.1 N·m                                                                                                    |
| Montagem na calha DIN                              | TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715<br>TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715                                                                                          |
| Power Loss                                         | at Rated Operating Conditions per Pole 2 W<br>at Rated Operating Conditions AC-1 per Pole 1 W                                                                                                           |
| Normas                                             | IEC/EN 60947-1<br>IEC/EN 60947-4-1<br>IEC/EN 60947-5-1<br>UL 60947-1<br>UL 60947-4-1                                                                                                                    |

## Technical UL/CSA

|                                  |                                                                                                                                                                                                                        |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Maximum Operating Voltage UL/CSA | Main Circuit 600 V AC                                                                                                                                                                                                  |
| Full Load Amps Motor Use         | (115 V AC) Single Phase 5.8 A<br>(200 V AC) Three Phase 4.8 A<br>(220 ... 240 V AC) Three Phase 6.8 A<br>(230 V AC) Single Phase 4.9 A<br>(440 ... 480 V AC) Three Phase 4.8 A<br>(550 ... 600 V AC) Three Phase 1.7 A |
| Classificação de potência UL/CSA | (115 V AC) Single Phase 0.25 Hp<br>(200 V AC) Three Phase 1 Hp<br>(220 ... 240 V AC) Three Phase 2 Hp<br>(230 V AC) Single Phase 0.5 Hp                                                                                |

|                                                 |                                                                              |
|-------------------------------------------------|------------------------------------------------------------------------------|
|                                                 | (440 ... 480 V AC) Three Phase 3 Hp<br>(550 ... 600 V AC) Three Phase 1 Hp   |
| General Use Rating<br>UL/CSA                    | (300 V AC) 12 A                                                              |
| Contact Rating UL/CSA                           | A600                                                                         |
| Connecting Capacity Main<br>Circuit UL/CSA      | Stranded 1/2x 22-10 AWG                                                      |
| Connecting Capacity<br>Auxiliary Circuit UL/CSA | Stranded 1/2x 22-10 AWG                                                      |
| Tightening Torque<br>UL/CSA                     | Auxiliary Circuit 7 in-lb<br>Control Circuit 7 in-lb<br>Main Circuit 7 in-lb |

## Environmental

|                                                           |                                                    |
|-----------------------------------------------------------|----------------------------------------------------|
| Temperatura do ar<br>ambiente                             | Operation -25 ... +55 °C<br>Storage -40 ... +80 °C |
| Altitude de operação<br>máxima permissível                | 2000 m                                             |
| Resistência ao Choque de<br>acordo com IEC 60068-2-<br>27 | 11 ms Pulse 15g                                    |
| Resistance to Vibrations<br>acc. to IEC 60068-2-6         | 5g / 5 ... 150 Hz                                  |
| Estado RoHS                                               | Following EU Directive 2011/65/EU                  |

## Certificates and Declarations (Document Number)

|                                     |                     |
|-------------------------------------|---------------------|
| Certificado BV                      | 1SAA920000-0204     |
| CB Certificate                      | 1SAA938000-2002     |
| CQC Certificate                     | CQC2003010304064033 |
| Certificado cULus                   | cUL_E191658         |
| Declaration of Conformity<br>- CCC  | 2020980304001854    |
| Declaração de<br>conformidade -CE   | 1SAD938517-0001     |
| Declaration of Conformity<br>- UKCA | 1SAD938501-1001     |
| DNV GL Certificate                  | 1SAA938000-0306     |
| EAC Certificate                     | 1SAA920000-2702     |
| Informação ambiental                | 1SAC200067H0009     |
| Instruções e Manuais                | 2CDC102047M6801     |
| KC Certificate                      | 1SAA938000-1501     |
| Certificado LR                      | 1SAA938000-0504     |
| Certificado RMRS                    | 1SAA938000-0704     |
| Informação RoHS                     | 1SAD938517-0001     |

## Container Information

|                                  |              |
|----------------------------------|--------------|
| Unidades de embalagem<br>Nível 1 | box 10 piece |
| Largura da embalagem<br>Nível 1  | 115 mm       |

|                                               |               |
|-----------------------------------------------|---------------|
| Altura da embalagem<br>Nível 1                | 54 mm         |
| Profundidade/Comprimento da embalagem Nível 1 | 280 mm        |
| Peso bruto da embalagem<br>Nível 1            | 1.82 kg       |
| Nível de Embalagem 1<br>EAN                   | 4013614412677 |

## Classifications

|                                   |                                           |
|-----------------------------------|-------------------------------------------|
| Código de classificação do objeto | 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  |
| ETIM 8                            | EC000066 - Power contactor, AC switching  |
| eClass                            | V11.0 : 27371003                          |
| UNSPSC                            | 39121529                                  |
| E-Number (Finland)                | 3709109                                   |
| E-Number (Sweden)                 | 3210024                                   |

## Accessories

| Identifier      | Description                | Type     | Quantity | 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           |
| GJL1201330R0003 | CAF6-11M Auxiliary Contact | CAF6-11M | 1        | piece           |
| GJL1201330R0006 | CAF6-20E Auxiliary Contact | CAF6-20E | 1        | piece           |
| GJL1201330R0011 | CAF6-02M Auxiliary Contact | CAF6-02M | 1        | piece           |
| GJL1201330R0007 | CAF6-20M Auxiliary Contact | CAF6-20M | 1        | piece           |
| GJL1201330R0012 | CAF6-02N Auxiliary Contact | CAF6-02N | 1        | piece           |
| GJL1201330R0008 | CAF6-20N Auxiliary Contact | CAF6-20N | 1        | piece           |
| GJL1201330R0002 | CAF6-11E Auxiliary Contact | CAF6-11E | 1        | piece           |
| GJL1201330R0004 | CAF6-11N Auxiliary Contact | CAF6-11N | 1        | piece           |
| GJL1201330R0010 | CAF6-02E Auxiliary Contact | CAF6-02E | 1        | piece           |
| GJL1201906R0001 | LT6-B Cover Cap            | LT6-B    | 1        | piece           |
| GJL1201907R0001 | LP6 Connecting Link        | LP6      | 1        | piece           |
| GJL1201904R0001 | BN6 Plunger                | BN6      | 1        | piece           |

Onde é Usado (como peça de reposição para "Produtos")

| Identifier   | Description              | Quantity | Unit Of Measure |
|--------------|--------------------------|----------|-----------------|
| 9AAC30400163 | No Description Available | 1        | piece           |
| 9AAC30400421 | No Description Available | 1        | piece           |
| 9AAC30403877 | No Description Available | 1        | piece           |
| 9AAC30404896 | No Description Available | 1        | piece           |
| 9AAF404899   | No Description Available | 1        | piece           |
| 9AAF404900   | No Description Available | 1        | piece           |
| 9AAF407277   | No Description Available | 1        | piece           |
| 9AAF408067   | No Description Available | 1        | piece           |

## Product specific part data

| Product      | Category                    | Switchgear Part Category  |
|--------------|-----------------------------|---------------------------|
| 9AAC30400163 | SafePlus up to 24kV         | Auxiliary Contactor Motor |
| 9AAC30400421 | SafeRing up to 24kV         | Auxiliary Contactor Motor |
| 9AAC30403877 | SafeRing 36-40,5kV          | Auxiliary Contactor Motor |
| 9AAC30404896 | SafePlus 36-40,5kV          | Auxiliary Contactor Motor |
| 9AAF404899   | SafeRing Air up to 12kV     | Auxiliary Contactor Motor |
| 9AAF404900   | SafePlus Air up to 12kV     | Motor Auxiliary Contactor |
| 9AAF407277   | SafeRing AirPlus up to 24kV | Auxiliary Contactor Motor |
| 9AAF408067   | SafePlus AirPlus up to 24kV | Auxiliary Contactor Motor |

## Categorias

Produtos e Sistemas de Baixa Tensão → Produtos para controle → Contatores → Mini contatores

Produtos e Sistemas de Média Tensão → Painéis e centro controle de motores → Gas Insulated Secondary Switchgear (ecoGIS) → Painel secundário isolado a gás → SafeRing Air up to 12kV

Produtos e Sistemas de Média Tensão → Painéis e centro controle de motores → Gas Insulated Secondary Switchgear (ecoGIS) → Painel secundário isolado a gás → SafeRing AirPlus up to 24kV

Produtos e Sistemas de Média Tensão → Painéis e centro controle de motores → Gas Insulated Secondary Switchgear (ecoGIS) → SafePlus (ecoGIS) → SafePlus Air up to 12kV

Produtos e Sistemas de Média Tensão → Painéis e centro controle de motores → Gas Insulated Secondary Switchgear (ecoGIS) → SafePlus (ecoGIS) → SafePlus AirPlus up to 24kV

Produtos e Sistemas de Média Tensão → Painéis e centro controle de motores → Painéis secundários → Painel isolado a gás (anel) → SafeRing 36-40,5kV

Produtos e Sistemas de Média Tensão → Painéis e centro controle de motores → Painéis secundários → Painel isolado a gás (anel) → SafeRing up to 24kV

Produtos e Sistemas de Média Tensão → Painéis e centro controle de motores → Painéis secundários → SafePlus → SafePlus 36-40,5kV

Produtos e Sistemas de Média Tensão → Painéis e centro controle de motores → Painéis secundários → SafePlus → SafePlus up to 24kV

