### General Information

<table>
<thead>
<tr>
<th>Extended Product Type</th>
<th>A16-30-10 220-230V 50Hz / 230-240V 60Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product ID</td>
<td>1SBL181001R8010</td>
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<tr>
<td>EAN</td>
<td>3471522050809</td>
</tr>
<tr>
<td>Catalog Description</td>
<td>A16-30-10 220-230V 50Hz / 230-240V 60Hz Contactor</td>
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</table>

**Long Description**

A16 contactors are mainly used for controlling 3-phase motors and generally for controlling power circuits up to 690 V AC or 220 V DC. The contactors can also be used for many other applications such as isolation, capacitor switching, lighting. The A... series 1-stack 3-pole contactors are of the block type design. - Main poles and auxiliary contact blocks: 3 main poles, 1 built-in auxiliary contact, front and side-mounted add-on auxiliary contact blocks - Control circuit: AC operated with laminated magnet circuit - Accessories: a wide range of accessories is available.

### Classifications

<table>
<thead>
<tr>
<th>Object Classification Code</th>
<th>Q</th>
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<tbody>
<tr>
<td>ETIM 4</td>
<td>EC000066 - Magnet contactor, AC-switching</td>
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<tr>
<td>ETIM 5</td>
<td>EC000066 - Magnet contactor, AC-switching</td>
</tr>
<tr>
<td>ETIM 6</td>
<td>EC000066 - Power contactor, AC switching</td>
</tr>
<tr>
<td>ETIM 7</td>
<td>EC000066 - Power contactor, AC switching</td>
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<tr>
<td>UNSPSC</td>
<td>39121529</td>
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### Container Information

<table>
<thead>
<tr>
<th>Package Level 1 Units</th>
<th>1 piece</th>
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<tbody>
<tr>
<td>Package Level 1 Width</td>
<td>78 mm</td>
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<tr>
<td>Package Level 1 Depth / Length</td>
<td>76 mm</td>
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<tr>
<td>Package Level 1 Height</td>
<td>47 mm</td>
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<tr>
<td>Package Level 1 Gross Weight</td>
<td>0.34 kg</td>
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<tr>
<td>Package Level 1 EAN</td>
<td>3471522050809</td>
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<tr>
<td>Package Level 2 Units</td>
<td>63 piece</td>
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<tr>
<td>Package Level 2 Gross Weight</td>
<td>21.42 kg</td>
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<tr>
<td>Package Level 3 Units</td>
<td>1220 piece</td>
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### Certificates and Declarations (Document Number)

<table>
<thead>
<tr>
<th>BV Certificate</th>
<th>BV_2634H07559D0</th>
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<td>CB Certificate</td>
<td>CB.FR.602227A</td>
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<tr>
<td>CCC Certificate</td>
<td>CCC._2013010304615753</td>
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<td>CCC._2004010309130463</td>
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</table>
A16-30-10 220-230V 50Hz / 230-240V 60Hz

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Environmental

Ambient Air Temperature
- Close to Contactor for Storage: -60 ... +80 °C
- Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 Uc): -40 ... +55 °C
- Close to Contactor Fitted with Thermal O/L Relay: -25 ... +55 °C
- Close to Contactor without Thermal O/L Relay (Uc): -40 ... +70 °C

Climatic Withstand
- acc. to IEC 60068-2-30 and 60068-2-11 - UTE C 63-100 specification II

Maximum Operating Altitude Permissible
3000 m

Resistance to Shock acc. to IEC 60068-2-27
- Shock Direction: A 20 K40
- Shock Direction: B2 15 K40
- Shock Direction: C1 20 K40
- Shock Direction: C2 20 K40
- Closed, Shock Direction: B1 10 K40
- Open, Shock Direction: B1 5 K40

RoHS Status
Following EU Directive 2011/65/EU

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Technical

Number of Main Contacts NO
- 3

Number of Main Contacts NC
- 0

Number of Auxiliary Contacts NO
- 1

Number of Auxiliary Contacts NC
- 0

Standards
- Devices complying with international standards IEC 947-1 / 947-4-1, and European standards EN 60 947-1 / 60 947-4-1. Electromagnetic compatibility (EMC) acc. to amendment A11 to IEC 947-1, EN 60 947-1 and amendment 2 to IEC 947-4-1

Rated Operational Voltage
- Main Circuit 690 V
- Supply Circuit 50 60 Hz

Conventional Free-air Thermal Current (I_{th})
- acc. to IEC 60947-5-1, q = 40 °C 16 A
- acc. to IEC 60947-4-1, Open Contactors q = 40 °C 30 A

Rated Operational Current AC-1 (I_{e})
- (690 V) 40 °C 30 A
- (690 V) 55 °C 27 A
- (690 V) 70 °C 23 A

Rated Operational Current AC-3 (I_{e})
- (220 / 230 / 240 V) 55 °C 17 A
- (380 / 400 V) 55 °C 17 A
- (415 V) 55 °C 17 A
- (440 V) 55 °C 16 A
- (500 V) 55 °C 14 A
- (690 V) 55 °C 10 A

Rated Operational Power AC-3 (P_{e})
- (220 / 230 / 240 V) 4 KWT
- (380 / 400 V) 7.5 KWT
Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1
8 x Ie AC-3

Rated Making Capacity AC-3 acc. to IEC 60947-4-1
10 x Ie AC-3

Rated Operational Current AC-15 (I_{e})
(220 / 240 V) 4 A
(24 / 127 V) 6 A
(380 / 440 V) 3 A
(500 V) 2 A
(690 V) 2 A

Rated Operational Current DC-13 (I_{e})
(125 V) 1.1 / 138 A
(24 V) 6 / 144 A
(250 V) 0.55 / 138 A
(48 V) 2.8 / 134 A
(72 V) 2 / 144 A

Rated Insulation Voltage (U_{i})
8 kV

Rated Impulse Withstand Voltage (U_{imp})
8 kV

Maximum Electrical Switching Frequency
AC-1 600 cycles per hour
AC-2 / AC-4 300 cycles per hour
AC-3 1200 cycles per hour

Maximum Breaking Capacity
cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 440 V 250 A
cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 690 V 90 A

Maximum Mechanical Switching Frequency
50 Hz 220 ... 230 V
60 Hz 230 ... 240 V

Coil Consumption
Average Holding Value 50 / 60 Hz 8 2 V·A
Average Pull-in Value 50 Hz 74 V·A
Average Pull-in Value 60 Hz 70 V·A

Operate Time
Between Coil De-energization and NO Contact Opening 4 ... 11 ms
Between Coil Energization and NO Contact Closing 10 ... 26 ms

Connecting Capacity Main Circuit
Flexible with Cable End 0.75 ... 2.5 m²
Rigid Cable 1 ... 4 m²

Connecting Capacity Auxiliary Circuit
Flexible with Cable End 0.75 ... 2.5 m²
Rigid Cable 1 ... 4 m²

Degree of Protection
acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20

Connecting terminals (delivered in open position) Main
M 3.5 (+,-) pozidriv 2 screws with cable clamp poles

Dimensions

Product Net Width
44 mm

Product Net Depth / Length
74 mm

Product Net Height
74 mm

Product Net Weight
0.34 kg

Popular Downloads

Data Sheet, Technical Information
1SBC100122C0202_Ch02

Instructions and Manuals
FPTC407721P0001
## Ordering

<table>
<thead>
<tr>
<th>Minimum Order Quantity</th>
<th>1 piece</th>
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<tr>
<td>Customs Tariff Number</td>
<td>85364900</td>
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## Categories

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