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# Detailed information for: AF96-30-00-41

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## AF96-30-00-41

### General Information

**Extended Product Type:** AF96-30-00-41

**Product ID:** 1SBL407001R4100

**EAN:** 3471523133204

**Catalog Description:** AF96-30-00-41 24-60V50/60HZ Contactor

**Long Description:** The AF96-30-00-41 is a 3 pole - 1000 V IEC or 600 UL contactor with screw terminals, controlling motors up to 45 kW / 400 V AC (AC-3) or 60 hp / 480 V UL and switching power circuits up to 130 A (AC-1) or 115 A UL general use. Thanks to the AF technology, the contactor has a wide control voltage range (24-60 V 50/60 Hz), managing large control voltage variations, reducing panel energy consumptions and ensuring distinct operations in unstable networks. Furthermore, surge protection is built-in, offering a compact solution. AF contactors have a block type design, can be easily extended with add-on auxiliary contact blocks and an additional wide range of accessories.



### Categories

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

### Ordering

**Minimum Order Quantity:** 1 piece

**Customs Tariff Number:** 85364900

### Popular Downloads

**Instructions and Manuals:** [1SBC101036M6801](#)

### Dimensions

**Product Net Width:** 70 mm

**Product Net Depth / Length:** 116 mm

**Product Net Height:** 125.5 mm

**Product Net Weight:** 1.22 kg

### Technical

**Number of Main Contacts NO:** 3

<b>Number of Main Contacts NC:</b>	0
<b>Number of Auxiliary Contacts NO:</b>	0
<b>Number of Auxiliary Contacts NC:</b>	0
<b>Rated Operational Voltage:</b>	Main Circuit 1000 V
<b>Rated Frequency (f):</b>	Main Circuit 50 / 60 Hz
<b>Conventional Free-air Thermal Current (<math>I_{th}</math>):</b>	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 130 A
<b>Rated Operational Current AC-1 (<math>I_e</math>):</b>	(690 V) 40 °C 130 (690 V) 60 °C 105 A (690 V) 70 °C 90
<b>Rated Operational Current AC-3 (<math>I_e</math>):</b>	(415 V) 60 °C 105 A (440 V) 60 °C 105 A (500 V) 60 °C 80 A (690 V) 60 °C 57 A (1000 V) 60 °C 30 A (380 / 400 V) 60 °C 105 A (220 / 230 / 240 V) 60 °C 105 A
<b>Rated Operational Power AC-3 (<math>P_e</math>):</b>	(400 V) 55 kW (415 V) 55 kW (440 V) 55 kW (500 V) 55 kW (690 V) 55 kW (1000 V) 40 kW (380 / 400 V) 55 kW (220 / 230 / 240 V) 30 kW
<b>Rated Short-time Withstand Current (<math>I_{cw}</math>):</b>	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 780 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 140 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 300 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1200 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 450 A for 1 s -empty- A
<b>Maximum Breaking Capacity:</b>	cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 440 V 1150 A cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 690 V 750 A
<b>Maximum Electrical Switching Frequency:</b>	(AC-1) 600 cycles per hour (AC-2 / AC-4) 150 cycles per hour (AC-3) 1200 cycles per hour
<b>Rated Insulation Voltage (<math>U_i</math>):</b>	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to UL/CSA 600 V
<b>Rated Impulse Withstand Voltage (<math>U_{imp}</math>):</b>	8 kV
<b>Maximum Mechanical Switching Frequency:</b>	3600 cycles per hour
<b>Rated Control Circuit Voltage (<math>U_c</math>):</b>	50 Hz 24 ... 60 V 50 Hz / 60 Hz 24 ... 60 V 60 Hz 24 ... 60 V DC Operation -
<b>Operate Time:</b>	Between Coil De-energization and NC Contact Closing 19 ... 105 ms Between Coil De-energization and NO Contact Opening 17 ... 100 ms Between Coil Energization and NC Contact Opening 38 ... 95 ms Between Coil Energization and NO Contact Closing 42 ... 100 ms
<b>Connecting Capacity Main Circuit:</b>	Flexible with Ferrule 1/2x 6 ... 50 mm <sup>2</sup> Flexible with Insulated Ferrule 1/2x 6 ... 50 mm <sup>2</sup> Rigid 1x 6 ... 70 mm <sup>2</sup> Rigid 2x 6 ... 50 mm <sup>2</sup>
<b>Connecting Capacity Control Circuit:</b>	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup>

Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm<sup>2</sup>  
Rigid 1/2x 1 ... 2.5 mm<sup>2</sup>

**Wire Stripping Length:** Main Circuit 17 mm

**Degree of Protection:** acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP10

**Terminal Type:** Screw Terminals

## Technical UL/CSA

**Horsepower Rating UL/CSA:** (120 V AC) Single Phase 7-1/2 hp  
(200 ... 208 V AC) Three Phase 30 hp  
(200 V AC) Three Phase 30 hp  
(208 V AC) Three Phase 30 hp  
(220 ... 240 V AC) Three Phase 40 hp  
(240 V AC) Single Phase 40 hp  
(440 ... 480 V AC) Three Phase 75 hp  
(550 ... 600 V AC) Three Phase 75 hp

**Tightening Torque UL/CSA:** Control Circuit 11 IA  
Main Circuit 53 IA

## Environmental

**Ambient Air Temperature:** Close to Contactor Fitted with Thermal O/L Relay -25 ... +60 °C  
Close to Contactor without Thermal O/L Relay -40 ... +70 °C  
Close to Contactor for Storage -60 ... +80 °C

**Climatic Withstand:** Category B according to IEC 60947-1 Annex Q

**Maximum Operating Altitude Permissible:** 3000 m

**Resistance to Vibrations acc. to IEC 60068-2-6:** 5 ... 300 Hz 3 g closed position / 3 g open position

**Resistance to Shock acc. to IEC 60068-2-27:** Closed, Shock Direction: A 25 K40  
Closed, Shock Direction: B1 25 K40  
Closed, Shock Direction: B2 15 K40  
Closed, Shock Direction: C1 25 K40  
Closed, Shock Direction: C2 25 K40  
Open, Shock Direction: B1 5 K40

**RoHS Status:** Following EU Directive 2011/65/EU

## Certificates and Declarations (Document Number)

**ABS Certificate:** [ABS\\_15-GE1349500-PDA\\_90682247](#)

**BV Certificate:** [BV\\_2634H36994A](#)

**CB Certificate:** [CB\\_SE-96557](#)

**CCC Certificate:** [CCC\\_2013010304646569](#)

**CQC Certificate:** [CQC2013010304646569](#)

**Declaration of Conformity - CCC:** [2020980304001255](#)

**Declaration of Conformity - CE:** [1SBD250000U1000](#)

**DNV Certificate:** [DNV-GL\\_TAE00001AF-3](#)

**DNV GL Certificate:** [DNV-GL\\_TAE00001AF-3](#)

**EAC Certificate:** [EAC\\_RU\\_FRME77B03447](#)

**Environmental Information:** [1SBD250168E1000](#)

**GL Certificate:** [DNV-GL\\_TAE00001AF-3](#)

**Instructions and Manuals:** [1SBC101036M6801](#)

**KC Certificate:** [KC\\_HW02016-15011C](#)

**LR Certificate:** [LRS\\_1300087E1](#)

**RINA Certificate:** [RINA\\_ELE084013XG](#)

<b>RMRS Certificate:</b>	<a href="#">RMRS_1802705280</a>
<b>RoHS Information:</b>	<a href="#">1SBD250000U1000</a>
<b>UL Certificate:</b>	<a href="#">UL_20130926-E312527_14_1</a>
<b>UL Listing Card:</b>	<a href="#">UL_E312527</a>

## Container Information

<b>Package Level 1 Units:</b>	box 1 piece
<b>Package Level 1 Width:</b>	150 mm
<b>Package Level 1 Depth / Length:</b>	150 mm
<b>Package Level 1 Height:</b>	103 mm
<b>Package Level 1 Gross Weight:</b>	1.22 kg
<b>Package Level 1 EAN:</b>	3471523133204
<b>Package Level 2 Units:</b>	box 8 piece
<b>Package Level 2 Width:</b>	250 mm
<b>Package Level 2 Depth / Length:</b>	300 mm
<b>Package Level 2 Height:</b>	300 mm
<b>Package Level 2 Gross Weight:</b>	9.76 kg
<b>Package Level 3 Units:</b>	192 piece

## Classifications

<b>Object Classification Code:</b>	Q
<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>	V11.0 : 27371003
<b>UNSPSC:</b>	39121529
<b>E-Number (Finland):</b>	3707134

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