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# Detailed information for: AF52-40-00-13

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Data Sheet

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## AF52-40-00-13

### General Information

**Extended Product Type:** AF52-40-00-13

**Product ID:** 1SBL367201R1300

**EAN:** 3471523133631

**Catalog Description:** AF52-40-00-13 100-250V50/60HZ-DC Contactor

**Long Description:** The AF52-40-00-13 is a 4 pole - 690 V IEC or 600 UL contactor with screw terminals, controlling motors up to 22 kW / 400 V AC (AC-3) and switching power circuits up to 100 A (AC-1) or 80 A UL general use. Thanks to the AF technology, the contactor has a wide control voltage range (100-250 V 50/60 Hz and DC), 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:** [1SBC101047M6801](#)

### Dimensions

**Product Net Width:** 70 mm

**Product Net Depth / Length:** 113.5 mm

**Product Net Height:** 125.5 mm

**Product Net Weight:** 1.16 kg

### Technical

**Number of Main Contacts NO:** 4

<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 690 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 105 A
<b>Rated Operational Current AC-1 (<math>I_e</math>):</b>	(690 V) 40 °C 100 (690 V) 60 °C 80 A (690 V) 70 °C 70
<b>Rated Operational Current AC-3 (<math>I_e</math>):</b>	(415 V) 60 °C 53 A (440 V) 60 °C 53 A (500 V) 60 °C 45 A (690 V) 60 °C 35 A (380 / 400 V) 60 °C 53 A (220 / 230 / 240 V) 60 °C 53 A
<b>Rated Operational Power AC-3 (<math>P_e</math>):</b>	(415 V) 30 kW (440 V) 30 kW (500 V) 30 kW (690 V) 30 kW (380 / 400 V) 22 kW (220 / 230 / 240 V) 15 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 600 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 110 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 250 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 350 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 950 A cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 690 V 600 A
<b>Maximum Electrical Switching Frequency:</b>	(AC-1) 600 cycles per hour
<b>Rated Insulation Voltage (<math>U_i</math>):</b>	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V acc. to UL/CSA 600 V
<b>Rated Impulse Withstand Voltage (<math>U_{imp}</math>):</b>	6 kV
<b>Maximum Mechanical Switching Frequency:</b>	3600 cycles per hour
<b>Rated Control Circuit Voltage (<math>U_c</math>):</b>	50 Hz 100 ... 250 V 50 Hz / 60 Hz 100 ... 250 V 60 Hz 100 ... 250 V DC Operation 100 ... 250 V
<b>Connecting Capacity Main Circuit:</b>	Flexible with Ferrule 1/2x 4 ... 35 mm <sup>2</sup> Rigid 1/2x 6 ... 3 5 mm <sup>2</sup>
<b>Connecting Capacity Control Circuit:</b>	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm <sup>2</sup> Rigid 1/2x 1 ... 2.5 mm <sup>2</sup>
<b>Wire Stripping Length:</b>	Main Circuit 16 mm
<b>Degree of Protection:</b>	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP10
<b>Terminal Type:</b>	Screw Terminals
<b>Technical UL/CSA</b>	
<b>General Use Rating UL/CSA:</b>	(600 V AC) 80 A

**Horsepower Rating UL/CSA:** (120 V AC) Single Phase 3 hp  
(200 ... 208 V AC) Three Phase 15 hp  
(220 ... 240 V AC) Three Phase 20 hp  
(240 V AC) Single Phase 10 hp  
(440 ... 480 V AC) Three Phase 40 hp  
(550 ... 600 V AC) Three Phase 50 hp

## Environmental

**Ambient Air Temperature:** Close to Contactor for Storage -60 ... +80 °C  
Near Contactor for Operation in Free Air -40 ... +70 °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 / 2 g Open position

**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-96554](#)

**CCC Certificate:** [CCC\\_2015010304824714](#)

**CQC Certificate:** [CQC2015010304824714](#)

**Declaration of Conformity - CCC:** [2020980304001256](#)

**Declaration of Conformity - CE:** [1SBD250001U1000](#)

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

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

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

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

**Instructions and Manuals:** [1SBC101047M6801](#)

**KC Certificate:** [KC\\_HW02016-15012C](#)

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

**RMRS Certificate:** [RMRS\\_1400682124](#)

**RoHS Information:** [1SBD250001U1000](#)

**UL Certificate:** [UL\\_20141124-E312527-14-2](#)

**UL Listing Card:** [UL\\_E312527](#)

## Container Information

**Package Level 1 Units:** box 1 piece

**Package Level 1 Width:** 150 mm

**Package Level 1 Depth / Length:** 150 mm

**Package Level 1 Height:** 103 mm

**Package Level 1 Gross Weight:** 1.27 kg

**Package Level 1 EAN:** 3471523133631

**Package Level 2 Units:** box 8 piece

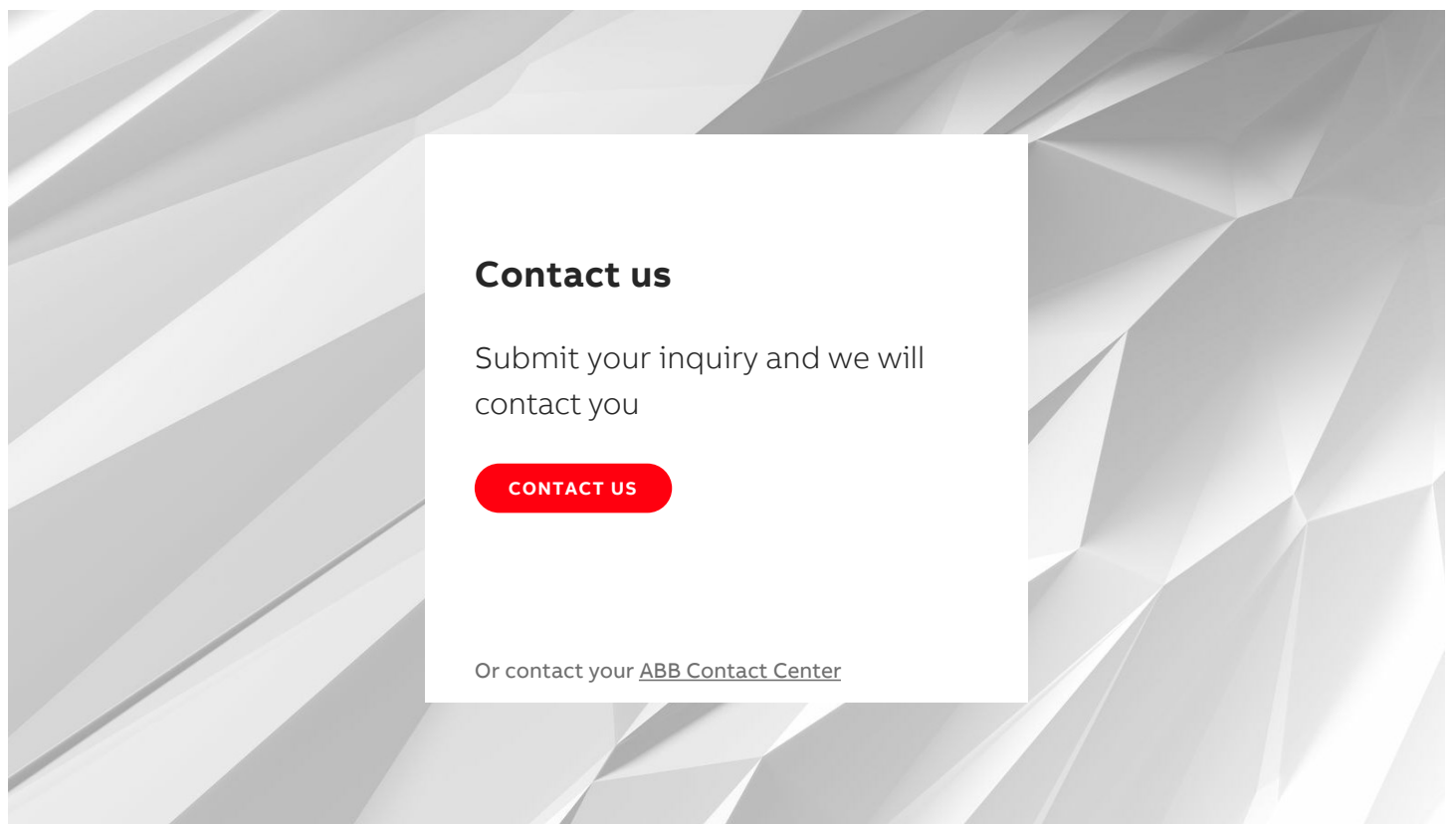
**Package Level 2 Width:** 250 mm

**Package Level 2 Depth / Length:** 300 mm

Package Level 2 Height:	300 mm
Package Level 2 Gross Weight:	10.16 kg
Package Level 3 Units:	192 piece

## Classifications

Object Classification Code:	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
eClass:	V11.0 : 27371003
UNSPSC:	39121529
E-Number (Finland):	3707262
E-Number (Sweden):	3210311



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