

# AF40-30-00-11

## General Information

<b>Extended Product Type:</b>	AF40-30-00-11
<b>Product ID:</b>	1SBL347001R1100
<b>EAN:</b>	3471523132016
<b>Catalog Description:</b>	AF40-30-00-11 24-60V50/60HZ 20-60VDC Contactor
<b>Long Description:</b>	AF40 contactors are used for controlling power circuits up to 690 V AC and 220 V DC. They are mainly used for controlling 3-phase motors, non-inductive or slightly inductive loads. AF... contactors include an electronic coil interface accepting a wide control voltage $U_c \text{ min. ... } U_c \text{ max.}$ Only four coils cover control voltages between 24...500 V 50/60 Hz or 20...500 V DC. AF contactors can manage large control voltage variations. One coil can be used for different control voltages used worldwide without any coil change. AF contactors have built-in surge protection and do not require additional surge suppressors. The AF... series 1-stack 3-pole contactors are of the block type design. - Main poles and auxiliary contact blocks: 3 main poles, front and side-mounted add-on auxiliary contact blocks (mechanically-linked auxiliary contacts compliant with Annex L of IEC 60947-5-1. N.C. mirror contacts compliant with Annex F of IEC 60947-4-1) - Control circuit: AC or DC operated - Accessories: a wide range of accessories is available.

## Categories

Products » Low Voltage Products and Systems » Control Products » Contactors » Across the Line Contactors

## Ordering

<b>EAN:</b>	3471523132016
<b>Minimum Order Quantity:</b>	1 piece
<b>Customs Tariff Number:</b>	85369085

## Dimensions

<b>Product Net Width:</b>	55 mm
<b>Product Net Depth:</b>	111 mm
<b>Product Net Height:</b>	125.5 mm
<b>Product Net Weight:</b>	0.970 kg

## Container Information

<b>Package Level 1 Units:</b>	1 piece
<b>Package Level 1 Width:</b>	150 mm
<b>Package Level 1 Length:</b>	150 mm
<b>Package Level 1 Height:</b>	97 mm
<b>Package Level 1 Gross Weight:</b>	1.07 kg
<b>Package Level 1 EAN:</b>	3471523132016
<b>Package Level 2 Units:</b>	10 piece
<b>Package Level 2 Width:</b>	250 mm
<b>Package Level 2 Length:</b>	300 mm
<b>Package Level 2 Height:</b>	300 mm
<b>Package Level 3 Units:</b>	240 piece

## Technical

<b>Number of Main Contacts NO:</b>	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 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 $q = 40\text{ °C}$ 105 A
<b>Rated Operational Current AC-1 (<math>I_e</math>):</b>	(690 V) 40 °C 70 A (690 V) 60 °C 60 A (690 V) 70 °C 50 A
<b>Rated Operational Current AC-3 (<math>I_e</math>):</b>	(220 / 230 / 240 V) 60 °C 40 A (380 / 400 V) 60 °C 40 A (415 V) 60 °C 40 A (440 V) 60 °C 40 A (500 V) 60 °C 35 A (690 V) 60 °C 25 A
<b>Rated Operational Power AC-3 (<math>P_e</math>):</b>	(220 / 230 / 240 V) 11 kW (380 / 400 V) 18.5 kW (400 V) 18.5 kW (415 V) 22 kW (440 V) 22 kW (500 V) 22 kW (690 V) 22 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
<b>Maximum Breaking Capacity:</b>	$\cos \phi = 0.45$ ( $\cos \phi = 0.35$ for $I_e > 100\text{ A}$ ) at 440 V 950 A $\cos \phi = 0.45$ ( $\cos \phi = 0.35$ for $I_e > 100\text{ A}$ ) at 690 V 600 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 UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 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 24 ... 60 V 60 Hz 24 ... 60 V DC Operation 20 ... 60 V
<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 Insulated Ferrule 1/2x 4...35 mm <sup>2</sup> Flexible with Ferrule 1/2x 4...35 mm <sup>2</sup> Rigid 1/2x 6...35 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>
<b>Wire Stripping Length:</b>	Main Circuit 16 mm
<b>Degree of Protection:</b>	acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP10
<b>Terminal Type:</b>	Screw Terminals

## Environmental

<b>Ambient Air Temperature:</b>	Close to Contactor for Storage -60...+80 °C Close to Contactor Fitted with Thermal O/L Relay -25 ... +60 °C Close to Contactor without Thermal O/L Relay -40 ... +70 °C
<b>Climatic Withstand:</b>	Category B according to IEC 60947-1 Annex Q
<b>Maximum Operating Altitude Permissible:</b>	3000 m
<b>Resistance to Vibrations acc. to IEC 60068-2-6:</b>	5 ... 300 Hz 3 g closed position / 3 g open position
<b>Resistance to Shock acc. to IEC 60068-2-27:</b>	Closed, Shock Direction: A 25 g Closed, Shock Direction: B1 25 g Closed, Shock Direction: B2 15 g Closed, Shock Direction: C1 25 g Closed, Shock Direction: C2 25 g Open, Shock Direction: B1 5 g

## Technical UL/CSA

<b>General Use Rating UL/CSA:</b>	(600 V AC) 60 A
<b>Horsepower Rating UL/CSA:</b>	(120 V AC) Single Phase 3 Hp (240 V AC) Single Phase 7-1/2 Hp (200 ... 208 V AC) Three Phase 10 Hp (220 ... 240 V AC) Three Phase 15 Hp (440 ... 480 V AC) Three Phase 30 Hp (550 ... 600 V AC) Three Phase 40 Hp
<b>Tightening Torque UL/CSA:</b>	Control Circuit 11 in·lb Main Circuit 35 in·lb

## Certificates and Declarations (Document Number)

<b>ABS Certificate:</b>	ABS_15-GE1349500-PDA_90682247
<b>BV Certificate:</b>	BV_2634H36994A
<b>CB Certificate:</b>	CB_SE_77418
<b>CCC Certificate:</b>	CCC_2012010304589737
<b>Data Sheet, Technical Information:</b>	1SBC100173C0201
<b>Declaration of Conformity - CE:</b>	1SBD250000U1000
<b>EAC Certificate:</b>	EAC_RU C-FR ME77 B01010
<b>LR Certificate:</b>	LRS_1300087E1

RINA Certificate:	RINA_ELE084013XG
RMRS Certificate:	RMRS_1400682124
RoHS Information:	1SBD251021E1000
UL Certificate:	UL_20130926-E312527_14_1
UL Listing Card:	UL_E312527
Instructions and Manuals:	1SBC101036M6801

## Classifications

Object Classification Code:	Q
E-number:	3210030
ETIM 4:	EC000066 - Magnet contactor, AC-switching
ETIM 5:	EC000066 - Magnet contactor, AC-switching
ETIM 6:	EC000066 - Power contactor, AC switching
UNSPSC:	39121529



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