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PRODUCT-DETAILS

## AF40-22-00-11

## AF40-22-00-11 24-60V50/60HZ 20-60VDC Contactor



General Information	
Extended Product Type	AF40-22-00-11
Product ID	1SBL347501R1100
EAN	3471523133815
Catalog Description	AF40-22-00-11 24-60V50/60HZ 20-60VDC Contactor
Long Description	The AF40-22-00-11 is a 4 pole - 690 V IEC or 600 UL contactor with screw terminals, controlling motors up to 18.5 kW / 400 V AC (AC-3) and switching power circuits up to 70 A (AC-1) or 60 A UL general use. Thanks to the AF technology, the contactor has a wide control voltage range (24-60 V 50/60 Hz and 20-60 V 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.

Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

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Popular Downloads	
Data Sheet, Technical Information	1SBC100214C0202
Instructions and Manuals	1SBC101047M6801
CAD Dimensional Drawing	2CDC001079B0201
Product Net Width	70 mm
Product Net Depth / Length	113.5 mm
Product Net Height	125.5 mm
Product Net Weight	1.21 kg
Technical	_
Number of Main Contacts NO	2
Number of Main Contacts NC	2
Number of Auxiliary Contacts NO	0
Number of Auxiliary Contacts NC	0
Standards	IEC/EN 60947-1, IEC/EN 60947-4-1, UL 60947-1, UL 60947-4-1, CSA C22.2 No. 60947-1:22, CSA C22.2 No. 60947-4-1:22
Rated Operational Voltage	Main Circuit 690 V
Rated Frequency (f)	Control Circuit 50 / 60 Hz Main Circuit 50 / 60 Hz
Conventional Free-air Thermal Current (I <sub>th</sub> )	acc. to IEC 60947-4-1, Open Contactors $\Theta$ = 40 °C 105 A
Rated Operational Current AC-1 (I <sub>e</sub> )	(690 V) 40 °C 70 A (690 V) 60 °C 60 A (690 V) 70 °C 50 A
Rated Operational Current AC-3 (I <sub>e</sub> )	(415 V) 60 °C 40 A (440 V) 60 °C 40 A (500 V) 60 °C 35 A (690 V) 60 °C 25 A (380 / 400 V) 60 °C 40 A (220 / 230 / 240 V) 60 °C 40 A
Rated Operational Power AC-3 (P <sub>e</sub> )	(415 V) 22 kW (440 V) 22 kW (500 V) 22 kW (690 V) 22 kW (380 / 400 V) 18.5 kW (220 / 230 / 240 V) 11 kW
Rated Short-time Withstand Current Low Voltage (I <sub>cw</sub> )	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
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 950 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 600 A
Maximum Electrical Switching Frequency	(AC-1) 600 cycles per hour
Rated Insulation Voltage (U <sub>i</sub> )	acc. to IEC 60947-4-1 690 V acc. to UL/CSA 600 V

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6 k	Rated Impulse
	Withstand Voltage (U <sub>imp</sub>
	)
3600 cycles per hou	Maximum Mechanical Switching Frequency
50 Hz 24 60	Rated Control Circuit
60 Hz 24 60	Voltage (U <sub>c</sub> )
DC Operation 20 60	
Average Holding Value 50 / 60 Hz 4 V	Coil Consumption
Average Holding Value 50 Hz 4 V	
Average Holding Value 60 Hz 4 V	
Average Holding Value DC 2	
Average Holding Value, from Warm State 2	
TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 6071	Mounting on DIN Rail
2 x M4 or 2 x M6 screws placed diagonal	Mounting by Screws (not supplied)
Flexible with Ferrule 1/2x 4 35 mm	Connecting Capacity
Flexible with Insulated Ferrule 1/2x 4 35 mm	Main Circuit
Rigid Stranded 1/2x 6 35 mm	
Flexible with Ferrule 1/2x 0.75 2.5 mm	Connecting Capacity
Flexible with Insulated Ferrule 1x 0.75 2.5 mn	Control Circuit
Flexible with Insulated Ferrule 2x 0.75 1.5 mm	
Rigid Solid 1/2x 1 2.5 mm	
Rigid Stranded 1/2x 1 2.5 mn	
Control Circuit 10 mi	Wire Stripping Length
Main Circuit 16 m	
acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP2	Degree of Protection
acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP1	-
Screw Termina	Terminal Type

Technical UL/CSA	
Maximum Operating Voltage UL/CSA	Main Circuit 600 V
General Use Rating UL/CSA	(600 V AC) 60 A
Connecting Capacity Main Circuit UL/CSA	Rigid Stranded 1/2x 10-2 AWG
Connecting Capacity Control Circuit UL/CSA	Rigid Solid 1/2x 18-14 AWG Rigid Stranded 1/2x 18-14 AWG
Tightening Torque UL/CSA	Control Circuit 11 in·lb Main Circuit 35 in·lb

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	Without Derating 3000 m
Resistance to Vibrations	3g Closed Position & 2g Open Position 5 300 Hz

Material Compliance	
Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2021-006202
RoHS Information	2CMT2021-006277

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RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	2CMT2023-006525
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

ABB EcoSolutions	
Environmental Product Declaration - EPD	2TFP200016A1001 1SBD250584E1000
End of Life Instructions	1SBC101081M6801

Certificates and Declarations	
ABS Certificate	ABS_20-2060694-PDA
BV Certificate	BV_2634H36994B1
CB Certificate	CB_SE-113324
CCC Certificate	CQC2015010304824714
CQC Certificate	CQC2015010304824714
Declaration of Conformity - CCC	2020980304001256
Declaration of Conformity - CE	1SBD250001U1000
Declaration of Conformity - UKCA	1SBD250032U1000
DNV Certificate	DNV_TAE00001AF-4
KC Certificate	KC_HW02016-15009C
UL Certificate	UL-US-L312527-1142-02114102-6 UL-CA-L312527-4142-02114102-6
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	1.32 kg
Package Level 1 EAN	3471523133815
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	10.56 kg
Package Level 3 Units	192 piece

Classifications	
Object Classification Code	Q

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ETIM 7	EC000066 - Power contactor, AC switching
ETIM 8	EC000066 - Power contactor, AC switching
ETIM 9	EC000066 - Power contactor, AC switching
eClass	V11.0 : 27371003
UNSPSC	39121529
IDEA Granular Category Code (IGCC)	4758 >> lec Contactors
E-Number (Finland)	3707553
E-Number (Sweden)	3210300

## Categories

 $Low\ Voltage\ Products\ and\ Systems \rightarrow Control\ Products \rightarrow Contactors \rightarrow Block\ Contactors \rightarrow AF\ Contactors \rightarrow AF40$ 

