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 PRODUCT-DETAILS

# AF116B-30-22RT-11

## AF116B-30-22RT-11 Contactor




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**General Information**

Extended Product Type	AF116B-30-22RT-11
Product ID	1SFL427062R1122
EAN	7320500509814
Catalog Description	AF116B-30-22RT-11 Contactor

Long Description	<p>The AF116B-30-22RT-11 is a 3 pole - 690 V IEC or 600 V UL contactor with pre-mounted auxiliary contacts and ring tongue ferrules, controlling motors up to 55 kW / 400 V AC (AC-3) or 75 hp / 480 V UL and switching power circuits up to 160 A (AC-1) or 160 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.</p>
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**Ordering**

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

## Popular Downloads

Data Sheet, Technical Information	1SBC100214C0202
Instructions and Manuals	1SFC100003M0201
CAD Dimensional Drawing	2CDC001079B0201

## Dimensions

Product Net Width	90 mm
Product Net Depth / Length	126 mm
Product Net Height	150 mm
Product Net Weight	1.3 kg

## Technical

Number of Main Contacts NO	3
Number of Main Contacts NC	0
Number of Auxiliary Contacts NO	2
Number of Auxiliary Contacts NC	2
Standards	IEC/EN 60947-1, IEC/EN 60947-4-1, UL 60947-4-1, CSA C22.2 No. 60947-4-1, IEC 60077-1 (applicable parts), IEC 60077-2 (applicable parts), EN 50155 (applicable parts), TR CU 001/2011, IEC 61373, For compliance confirmation on applicable parts based on your application and combination, please consult your ABB sales representatives.
Rated Operational Voltage	Main Circuit 690 V
Rated Operational Current AC-1 ( $I_e$ )	(690 V) 40 °C 160 A (690 V) 60 °C 145 A (690 V) 70 °C 130 A
Rated Operational Current AC-3 ( $I_e$ )	(415 V) 55 °C 116 A (440 V) 55 °C 116 A (500 V) 55 °C 110 A (690 V) 55 °C 65 A (380 / 400 V) 55 °C 116 A (220 / 230 / 240 V) 55 °C 116 A
Rated Operational Current AC-3e ( $I_e$ )	(415 V) 60 °C 116 A (440 V) 60 °C 116 A (500 V) 60 °C 110 A (690 V) 60 °C 65 A (380 / 400 V) 60 °C 116 A (220 / 230 / 240 V) 60 °C 116 A
Rated Operational Power AC-3 ( $P_e$ )	(415 V) 55 kW (440 V) 75 kW (500 V) 75 kW (690 V) 55 kW (380 / 400 V) 55 kW (220 / 230 / 240 V) 30 kW
Rated Operational Power AC-3e ( $P_e$ )	(415 V) 55 kW (440 V) 75 kW (500 V) 75 kW (690 V) 55 kW (380 / 400 V) 55 kW (220 / 230 / 240 V) 30 kW
Rated Breaking Capacity	8 x $I_e$ AC-3

AC-3

Rated Breaking Capacity AC-3e 8.5 x I<sub>e</sub> AC-3e

Rated Making Capacity AC-3 10 x I<sub>e</sub> AC-3

Rated Making Capacity AC-3e 12 x I<sub>e</sub> AC-3e

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 928 A  
 at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 160 A  
 at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 379 A  
 at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1300 A  
 at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 536 A

Rated Operational Current DC-1 (I<sub>e</sub>) (110 V) 2 Poles in Series, 40 °C 160 A  
 (110 V) 2 Poles in Series, 60 °C 145 A  
 (110 V) 2 Poles in Series, 70 °C 130 A  
 (110 V) 3 Poles in Series, 40 °C 160 A  
 (110 V) 3 Poles in Series, 60 °C 145 A  
 (110 V) 3 Poles in Series, 70 °C 130 A  
 (175 V) 2 Poles in Series, 40 °C 160 A  
 (175 V) 2 Poles in Series, 60 °C 145 A  
 (175 V) 2 Poles in Series, 70 °C 130 A  
 (220 V) 3 Poles in Series, 40 °C 160 A  
 (220 V) 3 Poles in Series, 60 °C 145 A  
 (220 V) 3 Poles in Series, 70 °C 130 A  
 (260 V) 3 Poles in Series, 40 °C 160 A  
 (260 V) 3 Poles in Series, 60 °C 145 A  
 (260 V) 3 Poles in Series, 70 °C 130 A  
 (72 V) 1-Pole, 40 °C 160 A  
 (72 V) 1-Pole, 60 °C 145 A  
 (72 V) 1-Pole, 70 °C 130 A  
 (72 V) 2 Poles in Series, 40 °C 160 A  
 (72 V) 2 Poles in Series, 60 °C 145 A  
 (72 V) 2 Poles in Series, 70 °C 130 A  
 (72 V) 3 Poles in Series, 40 °C 160 A  
 (72 V) 3 Poles in Series, 60 °C 145 A  
 (72 V) 3 Poles in Series, 70 °C 130 A  
 (90 V) 1 Pole, 40 °C 160 A  
 (90 V) 1 Pole, 60 °C 145 A  
 (90 V) 1 Pole, 70 °C 130 A

Rated Operational Current DC-3 (I<sub>e</sub>) (110 V) 2 Poles in Series, 40 °C 145 A  
 (110 V) 2 Poles in Series, 60 °C 145 A  
 (110 V) 2 Poles in Series, 70 °C 130 A  
 (110 V) 3 Poles in Series, 40 °C 145 A  
 (110 V) 3 Poles in Series, 60 °C 145 A  
 (110 V) 3 Poles in Series, 70 °C 130 A  
 (220 V) 3 Poles in Series, 40 °C 145 A  
 (220 V) 3 Poles in Series, 60 °C 145 A  
 (220 V) 3 Poles in Series, 70 °C 130 A  
 (72 V) 2 Poles in Series, 40 °C 145 A  
 (72 V) 2 Poles in Series, 60 °C 145 A  
 (72 V) 2 Poles in Series, 70 °C 130 A  
 (72 V) 3 Poles in Series, 40 °C 145 A  
 (72 V) 3 Poles in Series, 60 °C 145 A  
 (72 V) 3 Poles in Series, 70 °C 130 A

Rated Operational Current DC-5 (I<sub>e</sub>) (110 V) 2 Poles in Series, 40 °C 145 A  
 (110 V) 2 Poles in Series, 60 °C 145 A  
 (110 V) 2 Poles in Series, 70 °C 130 A  
 (110 V) 3 Poles in Series, 40 °C 145 A  
 (110 V) 3 Poles in Series, 60 °C 145 A  
 (110 V) 3 Poles in Series, 70 °C 130 A  
 (220 V) 3 Poles in Series, 40 °C 145 A  
 (220 V) 3 Poles in Series, 60 °C 145 A  
 (220 V) 3 Poles in Series, 70 °C 130 A  
 (72 V) 2 Poles in Series, 40 °C 145 A  
 (72 V) 2 Poles in Series, 60 °C 145 A  
 (72 V) 2 Poles in Series, 70 °C 130 A  
 (72 V) 3 Poles in Series, 40 °C 145 A  
 (72 V) 3 Poles in Series, 60 °C 145 A  
 (72 V) 3 Poles in Series, 70 °C 130 A

Mechanical Durability	5 million
Maximum Mechanical Switching Frequency	300 cycles per hour
Rated Control Circuit Voltage (U <sub>c</sub> )	50 Hz / 60 Hz 24 ... 60 V DC Operation 20 ... 60 V
Coil Consumption	Holding at Max. Rated Control Circuit Voltage 50 Hz 5.5 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 5.5 V·A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 225 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 225 V·A Pull-in at Max. Rated Control Circuit Voltage DC 210 W
Terminal Type	Main Circuit: Bars

## Technical UL/CSA

General Use Rating UL/CSA	(600 V AC) 160 A
Horsepower Rating UL/CSA	(200 ... 208 V AC) Three Phase 30 hp (220 ... 240 V AC) Three Phase 40 hp (440 ... 480 V AC) Three Phase 75 hp (550 ... 600 V AC) Three Phase 100 hp

## Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2021-006202
RoHS Information	2CMT2021-006277
RoHS Status	Following EU Directive 2011/65/EU
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

ABB EcoSolutions	Yes
Environmental Product Declaration - EPD	1SFC100092D0201
Circular Design Principles Recyclability Rate	Design for Closing Resource Loops - Standard EN45555 - 87.8 %
Sustainable Material Content	Recycled Metal - 37 %
Group Waste to Landfill Target	Non-hazardous waste is sent to a landfill, where there is no alternative option available within 100km of a facility
Improved Resource Efficiency for Customers	Product Efficiency - Product requires less energy to operate compared to similar product on market or older products from the same line
End of Life Instructions	1SFC100112M0001

## Certificates and Declarations

A2L Certificate – UL	9AKK108468A6693
CB Certificate	SEMKO_SE-70479M1
CQC Certificate	CQC2013010304604055
Declaration of Conformity - CCC	2020980304001304

Declaration of Conformity - CE	2CMT2015-005440
Declaration of Conformity - UKCA	2CMT2020-006124
EAC Certificate	9AKK107046A8618
UR Certificate	20150602-E36588

### Container Information

Package Level 1 Units	box 1 piece
Package Level 1 Width	207 mm
Package Level 1 Depth / Length	216 mm
Package Level 1 Height	150 mm
Package Level 1 Gross Weight	1.5 kg
Package Level 1 EAN	7320500509814

### Classifications

Object Classification Code	Q
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

### Categories

Low Voltage Products and Systems → Control Products → Contactors → Block Contactors → AF Contactors → AF116



360°



