



English



AF116-30-11-14

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General Information

Extended Product Type:

AF116-30-11-14

Product ID:

1SFL427001R1411

EAN:

7320500476383

Catalog Description:

AF116-30-11-14 Contactor

Long Description:

The AF116-30-11-14 is a 3 pole - 690 V IEC or 600 V UL contactor with pre-mounted auxiliary contacts and double clamp, 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 contac... [Show more](#)

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Ordering

Minimum Order Quantity:

1 piece

Customs Tariff Number:

85364900

Popular Downloads

Data Sheet, Technical Information:

[1SBC100214C0202 - Main catalog Motor protection and control Manual motor starters, contactors and overload relays \(PDF\) - Edition 2024](#)

Data Sheet, Technical Information (Part 2):

[Contactors and Overload relays guide](#)

Instructions and Manuals:

[Operating instruction, Contactor, AF\(S\)116, AF140, AF\(S\)146](#)

CAD Dimensional Drawing:

[Information - 2D and 3D files for CAD systems](#)

Dimension Diagram:

[1SFB535001G1051](#)

Dimensions

Product Net Width:

90 mm

Product Net Depth / Length:

126 mm

Product Net Height:

150 mm

Product Net Weight:

1.55 kg

Technical

Number of Main Contacts NO:

3

Number of Main Contacts NC:

0

Number of Auxiliary Contacts NO:

1

Number of Auxiliary Contacts NC:

1

Number of Poles:

3P

Rated Operational Voltage:

Main Circuit 690 V

Rated Frequency (f):

Main Circuit 50 / 60 Hz

Conventional Free-air Thermal Current (I_{th}):acc. to IEC 60947-4-1, Open Contactors $\Theta = 40\text{ °C}$ 160 A**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 Current DC-1 (I_e):

(110 V) 2 Poles in Series, 40 °C 145 A

(220 V) 3 Poles in Series, 40 °C 145 A

Rated Operational Current DC-3 (I_e):

(110 V) 2 Poles in Series, 40 °C 145 A

(220 V) 3 Poles in Series, 40 °C 145 A

Rated Operational Current DC-5 (I_e):

(110 V) 2 Poles in Series, 40 °C 145 A

(220 V) 3 Poles in Series, 40 °C 145 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 AC-3:8 x I_e AC-3**Rated Breaking Capacity AC-3e:**8.5 x I_e AC-3e**Rated Making Capacity AC-3:**10 x I_e AC-3**Rated Making Capacity AC-3e:**

12 x Ie AC-3e

Short-Circuit Protective Devices:

gG Type Fuses 250 A

Rated Short-time Withstand Current Low Voltage (I_{cw}):

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 1160 A
 at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 536 A

Maximum Breaking Capacity:

cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 440 V 2000 A
 cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 690 V 1000 A

Rated Insulation Voltage (U_i):

acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V
 acc. to UL/CSA 600 V

Rated Impulse Withstand Voltage (U_{imp}):

Main Circuit 8 kV

Maximum Electrical Switching Frequency:

(AC-1) 300 cycles per hour
 (AC-2 / AC-4) 150 cycles per hour
 (AC-3) 300 cycles per hour

Mechanical Durability:

5 million

Maximum Mechanical Switching Frequency:

300 cycles per hour

Coil Operating Limits:(acc. to IEC 60947-4-1) 0.85 x Uc Min. ... 1.1 x Uc Max. (at $\theta \leq 70$ °C)**Rated Control Circuit Voltage (U_c):**

50 Hz 250 ... 500 V
 60 Hz 250 ... 500 V
 DC Operation 250 ... 500 V

Coil Consumption:

Average Pull-in Value 50 Hz 260 V·A
 Average Pull-in Value 60 Hz 260 V·A
 Holding at Max. Rated Control Circuit Voltage 50 Hz 16.1 V·A
 Holding at Max. Rated Control Circuit Voltage 60 Hz 16.1 V·A
 Holding at Max. Rated Control Circuit Voltage DC 4 W
 Pull-in at Max. Rated Control Circuit Voltage 50 Hz 205 V·A
 Pull-in at Max. Rated Control Circuit Voltage 60 Hz 205 V·A
 Pull-in at Max. Rated Control Circuit Voltage DC 230 W

Power Loss:

at Rated Operating Conditions per Pole 6 W

Operate Time:

Between Coil De-energization and NO Contact Opening 37 ... 47 ms
 Between Coil Energization and NO Contact Closing 25 ... 55 ms

Connecting Capacity Main Circuit:

Flexible 2 x 10 ... 70 mm²
 Rigid Cu-Cable 2 x 10 ... 95 mm²

Connecting Capacity Auxiliary Circuit:

Flexible with Ferrule 2x 0.75 ... 2.5 mm²
 Flexible with Insulated Ferrule 2x 0.75 ... 2.5 mm²
 Flexible 1x0.75 ... 2.5 mm²
 Solid 1 x 1 ... 4 mm²
 Stranded 1 x 1 ... 4 mm²

Connecting Capacity:

Flexible 2 x 10 ... 70 mm²
Rigid Cu-Cable 2 x 10 ... 95 mm²

Degree of Protection:

acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20
acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP00

Tightening Torque:

Cable Lug 9 N·m
Main Circuit 8 N·m

Terminal Type:

Double Clamp

Product Name:

Block Contactor

Technical UL/CSA**Maximum Operating Voltage UL/CSA:**

Main Circuit 600 V

General Use Rating UL/CSA:

(600 V AC) 160 A

Horsepower Rating UL/CSA:

(200 V AC) Three Phase 30 hp
(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

Full Load Amps Motor Use:

(440 ... 480 V AC) Three Phase 96 A
(550 ... 600 V AC) Three Phase 99 A

Environmental**Ambient Air Temperature:**

Close to Contactor Fitted with Thermal O/L Relay (0.85 ... 1.1 Uc) -25 ... 50 °C
Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 Uc) -40 ... 70 °C
Close to Contactor for Storage -40 ... 70 °C

Maximum Operating Altitude Permissible:

Without Derating 3000 m

Material Compliance**Conflict Minerals Reporting Template (CMRT):**

[CMRT - Conflict Minerals Reporting Template](#)

REACH Declaration:

[REACH - Letter of Confirmation for block contactors, contactor relays, installation contactors, mini contactors, mini contactor relays, thermal overload relays, electronic overload relays and related accessories](#)

RoHS Information:

[RoHS II declaration for block contactors, installation contactors, mini contactors, mini contactor relays, thermal overload relays, electronic overload relays and related accessories](#)

RoHS Status:

Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

Toxic Substances Control Act - TSCA:

[Toxic Substances Control Act \(TSCA\) declaration for Contactors](#)

WEEE B2C / B2B:

Business To Business

WEEE Category:

5. Small Equipment (No External Dimension More Than 50 cm)

ABB EcoSolutions

ABB EcoSolutions:

Yes

ABB Site Meeting 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

End Of Life Disassembling Instructions:

End-of-life instruction - AF(S)116(B)-**(RT) to AF(S)205(B)-**(RT)

Environmental Product Declaration - EPD:

Environmental Product Declaration, AF(S)116-AF(S)146 (SE) Contactors

Improved Energy Efficiency for Customers:

Product Efficiency - Product requires less energy to operate compared to similar product on market or older products from the same line

Recyclability Rate of the Product acc. to EN45555:

Design for Closing Resource Loops - Standard EN45555 - 87.8 %

Sustainable Material Content in Product (wt. %):

Recycled Metal - 37 %

Certificates and Declarations

A2L Certificate – UL:

UL Certificate of Compliance A2L, Contactor, AF116 - AF146

ABS Certificate:

ABS Approval, Contactor, AF116 ... AF370 (Sweden)

BV Certificate:

BV Certificate, Contactor, AF116-30 ... AF370-30...AF116-40...AF370-40

CB Certificate:

SEMKO SE-70479M1

CCS Certificate:

CCS Certificate, Contactor, AF116 to AF2850 (Sweden)

CQC Certificate:

CQC Certificate, AC Contactor, AF116-*-*, AF140-*-*, AF146-*-*, AF116B-*-*, AF140B-*-*, AF146B-*-*, AFS116-30-*-*, AFS140-30-*-*, AFS146-30-*-*, Made in Sweden

Declaration of Conformity - CCC:

CCC Declaration of Conformity, AC Contactor, AF116-*-*, AF140-*-*, AF146-*-*, AF116B-*-*, AF140B-*-*, AF146B-*-*, AFS116-30-*-*, AFS140-30-*-*, AFS146-30-*-*, Made in Sweden

Declaration of Conformity - CE:

CE Declaration of Conformity - Contactor - AF116...AF370

Declaration of Conformity - UKCA:

UK Declaration of Conformity - Contactors >100A

DNV Certificate:

DNV-certificate, Contactors, AF116-30...AF370-30 and AF116-40...AF370-40

EAC Certificate:

9AKK107046A8618

LR Certificate:

Lloyds register Certificate, Contactor, AF116-30 ... AF370-30, AF116-40...AF370-40

PRS Certificate:

[PRS Certificate - AF116...AF1650](#)

RINA Certificate:

[RINA Certificate, AF95, AF110, AF145, AF185, AF210, AF260, AF300, AF400, AF460, AF580, AF750, AF1250, AF1350, AF1650, AF2050, AF2650, AF116, AF140, AF146, AF190, AF205, AF265, AF305, AF370](#)

RMRS Certificate:

[9AKK107045A6978](#)

UL Certificate:

[cULus Certificate, Contactor, AF116-30...AF146-30, AFS116-30...AFS146-30](#)

UL Listing Card:

[UL_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:

1.75 kg

Package Level 1 EAN:

7320500476383

External Classifications and Standards

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 >> Iec Contactors

E-Number (Finland):

3706171

E-Number (Norway):

4117614

E-Number (Sweden):

3210069

Accessories

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Identifier	Description	Type	Qty	Unit Of Measure	Actions
1SFN034403R1000	VM140/190 Mechanical Interlock Unit	VM140/190	1	piece	
1SFN074203R1000	LY140 Connecting Strip	LY140	1	piece	
1SFN074207R1000	LW140 Terminal Enlargement	LW140	1	piece	
1SFN074208R1000	LD146-30 Connection Module	LD146-30	1	piece	
1SFN074210R1000	LX140 Terminal Extension	LX140	1	piece	

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