

PRODUCT-DETAILS

# AF116-30-11-12

## AF116-30-11-12 Contactor



### Algemene informatie

Type	AF116-30-11-12
Artikelnummer	1SFL427001R1211
EAN	7320500476369
Omschrijving	AF116-30-11-12 Contactor

Omschrijving	<p>The AF116-30-11-12 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.</p> <p>Thanks to the AF technology, the contactor has a wide control voltage range (48-130 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.</p>
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### Ordering

Minimale bestelhoeveelheid	1 stuk
Nummer douanetarief	85364900

### Popular Downloads

Gegevensblad, technische informatie	1SBC100192C0206
Instructies en handleidingen	1SFC100003M0201
CAD Dimensional Drawing	2CDC001079B0201
Dimensiediagram	1SFB535001G1051

## Dimensions

Product netto breedte	90 mm
Product netto diepte	126 mm
Product netto hoogte	150 mm
Product netto gewicht	1.55 kg

## Technical

Aantal hoofdcontacten NO	3
Aantal hoofdcontacten NC	0
Aantal hulpcontacten NO	1
Aantal hulpcontacten NC	1
Nominaal bedrijfsvoltage	Main Circuit 690 V
Toegekende frequentie (f)	Main Circuit 50 / 60 Hz
Conventionele vrije-lucht thermische stroom ( $I_{th}$ )	acc. to IEC 60947-4-1, Open Contactors $\Theta = 40\text{ °C}$ 160 A
Nominale bedrijfsstroom AC-1 ( $I_e$ )	(690 V) 40 °C 160 A (690 V) 60 °C 145 A (690 V) 70 °C 130 A
Nominale bedrijfsstroom 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
Nominale bedrijfsstroom 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
Nominale bedrijfsvermogen 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
Nominale bedrijfsvermogen 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
Nominale remcapaciteit AC-3 volgens IEC 60947-4-1	8 x $I_e$ AC-3

Rated Breaking Capacity AC-3e	8.5 x I <sub>e</sub> AC-3e
Nominaal inschakelvermogen AC-3 volgens IEC 60947-4-1	10 x I <sub>e</sub> AC-3
Rated Making Capacity AC-3e	12 x I <sub>e</sub> AC-3e
Beschermende apparaten met kortsluiting	gG Type Fuses 250 A
Nominale kortstondige grensstroom (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 1160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 536 A
Maximale breekcapaciteit	cos phi=0.45 (cos phi=0.35 for I <sub>e</sub> > 100 A) at 440 V 2000 A cos phi=0.45 (cos phi=0.35 for I <sub>e</sub> > 100 A) at 690 V 1000 A
Maximale elektrische schakelfrequentie	(AC-1) 300 omwentelingen per uur (AC-2 / AC-4) 150 omwentelingen per uur (AC-3) 300 omwentelingen per uur
Nominale bedrijfsstroom DC-1 (I <sub>e</sub> )	(110 V) 2 Poles in Series, 40 °C 145 A (220 V) 3 Poles in Series, 40 °C 145 A
Nominale bedrijfsstroom DC-3 (I <sub>e</sub> )	(110 V) 2 Poles in Series, 40 °C 145 A (220 V) 3 Poles in Series, 40 °C 145 A
Nominale bedrijfsstroom DC-5 (I <sub>e</sub> )	(110 V) 2 Poles in Series, 40 °C 145 A (220 V) 3 Poles in Series, 40 °C 145 A
Nominaal isolatievoltage (U <sub>i</sub> )	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to UL/CSA 600 V
Nominale impuls grensvoltage (U <sub>imp</sub> )	Main Circuit 8 kV
Mechanische duurzaamheid	5 million
Maximale mechanische schakelfrequentie	300 omwentelingen per uur
Spoel operationele limieten	(acc. to IEC 60947-4-1) 0.85 x U <sub>c</sub> Min. ... 1.1 x U <sub>c</sub> Max. (at θ ≤ 70 °C)
Nominale stroomkringspanning (U <sub>c</sub> )	50 Hz 48 ... 130 V 60 Hz 48 ... 130 V DC Operation 48 ... 130 V
Spoelverbruik	Holding at Max. Rated Control Circuit Voltage 50 Hz 4 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 4 V·A Holding at Max. Rated Control Circuit Voltage DC 2.5 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 180 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 180 V·A Pull-in at Max. Rated Control Circuit Voltage DC 150 W
Bedieningsstijd	Between Coil De-energization and NO Contact Opening 37 ... 47 ms Between Coil Energization and NO Contact Closing 25 ... 55 ms
Verbindingscapaciteit hoofdcircuit	Flexible 2 x 10 ... 70 mm <sup>2</sup> Rigid Cu-Cable 2 x 10 ... 95 mm <sup>2</sup>
Verbindingscapaciteit hulpcircuit	Flexible with Ferrule 2x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 0.75 ... 2.5 mm <sup>2</sup> Flexible 2x0.75 ... 2.5 mm <sup>2</sup> Solid 2 x 1 ... 4 mm <sup>2</sup> Stranded 2 x 1 ... 4 mm <sup>2</sup>
Beschermingsgraad	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP00
Terminaltype	Double Clamp

## Technical UL/CSA

Maximale bedrijfsspanning UL/CSA	Main Circuit 600 V
Algemeen gebruik klasse UL/CSA	(600 V AC) 160 A
Paardenkrachtklasse 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

## Environmental

Omgevingsluchttemperatuur	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 bij schakelaar voor opslag -40 ... 70 °C
Maximale werkhoogte toegestaan	Without Derating 3000 m
RoHS-status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

## Circular Value

ABB EcoSolutions	Yes
Circular Design Principles Recyclability Rate	Design for Closing Resource Loops - Standard EN45555 - 87.8 %
End of Life Instructions	1SFC100112M0001
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
Sustainable Material Content	Recycled Metal - 37 %

## Eco Transparency

Milieuproductverklaring - EPD	1SFC100092D0201
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## Certificates and Declarations

ABS-certificaat	14-LD1092198-PDA
BV-certificaat	BV_36353_A0BV
CB-certificaat	SEMKO_SE-70479M1
CCS-certificaat	GB14T00030
CQC-certificaat	CQC2013010304604055
Declaration of Conformity - CCC	2020980304001304
Conformiteitsverklaring - CE	2CMT2015-005439
Declaration of Conformity	2CMT2020-006118

## - UKCA

DNV-certificaat	DNV_E-14043
EAC-certificaat	9AKK107046A8618
LR-certificaat	LR_14_70011(E1)
PRS-certificaat	TE_2092_880423_16
RINA-certificaat	ELE060313XG_002
RMRS-certificaat	9AKK107045A6978
UL-certificaat	20120925-E36588
UL-noteringskaart	UL_E36588

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**Container Information**

Pakketniveau 1 Units	doos 1 stuk
Pakketniveau 1 Breedte	207 mm
Pakketniveau 1 Lengte	216 mm
Pakketniveau 1 Hoogte	150 mm
Pakketniveau 1 Brutogewicht	1.75 kg
Pakketniveau 1 EAN	7320500476369

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**Classifications**

Object classificatiecode	Q
ETIM 4	EC000066 - Magnet contactor, AC-switching
ETIM 5	EC000066 - Magnet contactor, AC-switching
ETIM 6	EC000066 - Magneetschakelaar
ETIM 7	EC000066 - Power contactor, AC switching
ETIM 8	EC000066 - Magneetschakelaar
eClass	V11.0 : 27371003
UNSPSC	39121529
IGCC (IDEA granulaire categoriekecode)	4758 >> Iec Contactors
E-Number (Finland)	3706164
E-Number (Norway)	4117613
E-Number (Sweden)	3210067

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**Categorieën**

Laagspanningsproducten en -systemen → Control Producten → Magneetschakelaars → Magneetschakelaars

