

PRODUCT-DETAILS

# AF146-30-11B-14

## AF146-30-11B-14 Contactor



### Algemene informatie

Type	AF146-30-11B-14
Artikelnummer	1SFL467002R1411
EAN	7320500478424
Omschrijving	AF146-30-11B-14 Contactor

Omschrijving	The AF146-30-11B-14 is a 3 pole - 1000 V IEC or 600 V UL contactor with pre-mounted auxiliary contacts and Main Circuit Bars, controlling motors up to 75 kW / 400 V AC (AC-3) or 100 hp / 480 V UL and switching power circuits up to 225 A (AC-1) or 200 A UL general use. Thanks to the AF technology, the contactor has a wide control voltage range (250-500 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.
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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	1.3 kg

## Technical

Aantal hoofdcontacten NO	3
Aantal hoofdcontacten NC	0
Aantal hulpcontacten NO	1
Aantal hulpcontacten NC	1
Nominaal bedrijfsvoltage	Main Circuit 1000 V
Toegekende frequentie (f)	Main Circuit 50 / 60 Hz
Conventionele vrije-lucht thermische stroom ( $I_{th}$ )	acc. to IEC 60947-4-1, Open Contactors $\Theta = 40\text{ °C}$ 225 A
Nominale bedrijfsstroom AC-1 ( $I_e$ )	(1000 V) 40 °C 225 A (1000 V) 55 °C 200 A (1000 V) 60 °C 200 A (1000 V) 70 °C 175 A (690 V) 40 °C 225 A (690 V) 55 °C 200 A (690 V) 60 °C 200 A (690 V) 70 °C 175 A
Nominale bedrijfsstroom AC-3 ( $I_e$ )	(415 V) 55 °C 146 A (440 V) 55 °C 146 A (500 V) 55 °C 130 A (690 V) 55 °C 93 A (1000 V) 55 °C 60 A (380 / 400 V) 55 °C 146 A (220 / 230 / 240 V) 55 °C 146 A
Nominale bedrijfsstroom AC-3e ( $I_e$ )	(415 V) 60 °C 146 A (440 V) 60 °C 146 A (500 V) 60 °C 130 A (690 V) 60 °C 93 A (1000 V) 60 °C 54 A (380 / 400 V) 60 °C 146 A (220 / 230 / 240 V) 60 °C 146 A
Nominale bedrijfsvermogen AC-3 ( $P_e$ )	(415 V) 75 kW (440 V) 90 kW (500 V) 90 kW (690 V) 90 kW (1000 V) 75 kW (380 / 400 V) 75 kW (220 / 230 / 240 V) 45 kW
Nominale bedrijfsvermogen AC-3e	(415 V) 75 kW (440 V) 90 kW

(P <sub>e</sub> )	(500 V) 90 kW (690 V) 90 kW (1000 V) 75 kW (380 / 400 V) 75 kW (220 / 230 / 240 V) 45 kW
Nominale remcapaciteit AC-3 volgens IEC 60947-4-1	8 x Ie AC-3
Rated Breaking Capacity AC-3e	8.5 x Ie AC-3e
Nominaal inschakelvermogen AC-3 volgens IEC 60947-4-1	10 x Ie AC-3
Rated Making Capacity AC-3e	12 x Ie AC-3e
Beschermende apparaten met kortsluiting	gG Type Fuses 315 A
Nominale kortstondige grensstrom (I <sub>cw</sub> )	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1168 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 200 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 477 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1460 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 674 A
Maximale breekcapaciteit	cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 440 V 3000 A cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 690 V 1500 A
Maximale elektrische schakelfrequentie	(AC-1) 300 omwentelingen per uur (AC-2 / AC-4) 150 omwentelingen per uur (AC-3) 300 omwentelingen per uur
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 stuurstroomkringspanning (U <sub>c</sub> )	50 Hz 250 ... 500 V 60 Hz 250 ... 500 V DC Operation 250 ... 500 V
Spoelverbruik	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
Bedieningstijd	Between Coil De-energization and NO Contact Opening 37 ... 47 ms Between Coil Energization and NO Contact Closing 25 ... 55 ms
Verbindingscapaciteit hoofdcircuit	Flexible 1 x 10 ... 70 mm <sup>2</sup> Rigid Cu-Cable 1 x 10 ... 95 mm <sup>2</sup>
Verbindingscapaciteit hulpcircuit	Flexible with Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 0.75 ... 2.5 mm <sup>2</sup> Flexible 1x0.75 ... 2.5 mm <sup>2</sup> Solid 1 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	Main Circuit: Bars
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## Technical UL/CSA

Maximale bedrijfsspanning UL/CSA	Main Circuit 1000 V
Algemeen gebruik klasse UL/CSA	(600 V AC) 200 A
Paardenkrachtklasse UL/CSA	(200 V AC) Three Phase 40 hp (208 V AC) Three Phase 40 hp (220 ... 240 V AC) Three Phase 50 hp (440 ... 480 V AC) Three Phase 100 hp (550 ... 600 V AC) Three Phase 125 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 -	2CMT2015-005439

## CE

Declaration of Conformity - UKCA	2CMT2020-006118
DNV-certificaat	DNV_E-14043
EAC-certificaat	9AKK107046A8618
KC-certificaat	9AKK107046A9910
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	1.5 kg
Pakketniveau 1 EAN	7320500478424

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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 categoriecocode)	4758 >> Iec Contactors
E-Number (Finland)	3706385
E-Number (Norway)	4117636
E-Number (Sweden)	3210127

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**Categorieën**

Laagspanningsproducten en -systemen → Control Producten → Magneetschakelaars → Magneetschakelaars

