

PRODUCT-DETAILS

AF50-30-11 48-130V 50Hz / 48-130V 60Hz /  
48-130V DC

AF50-30-11 48-130V 50Hz / 48-130V 60Hz / 48-  
130V DC Contactor



Algemene informatie

Type	AF50-30-11 48-130V 50Hz / 48-130V 60Hz / 48-130V DC
Artikelnummer	1SBL357001R6911
EAN	3471522114792
Omschrijving	AF50-30-11 48-130V 50Hz / 48-130V 60Hz / 48-130V DC Contactor

Omschrijving	<p>AF50 contactors are mainly used for controlling 3-phase motors and generally for controlling power circuits up to 690 V AC and 220 V DC. The contactors can also be used for many other applications such as bypass, capacitor switching, lighting, DC power circuits... The AF... contactors are fitted with an electronic coil interface which accepts a wide control voltage range, on AC 50/60 Hz or DC supplies. The same contactor can accept various supply voltages according to the different countries where the electrical equipment will be installed, or some fluctuation in the control voltage due to the local supply or network. The AF... contactors are also fully suitable for operation in AC or DC control circuit liable to voltage interruptions or voltage dip risks. Advantages: - Wide voltage range, e.g. 100 ... 250 V AC and DC - Can manage large voltage variations - Reduced power consumption - Very distinct closing and opening - Noise free - Can withstand voltage interruptions or voltage dips in the control supply (<math>\leq 20</math> ms). The AF... series 1-stack 3-pole contactors are of the block type design. - Main poles and auxiliary contact blocks: 3 main poles and 2 built-in auxiliary contacts, front and side-mounted add-on auxiliary contact blocks - Control circuit: AC or DC operated - Accessories: a wide range of accessories is available.</p>
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Ordering

Minimale bestelhoeveelheid	1 stuk
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Nummer douanetarief

85364900

## Popular Downloads

Gegevensblad, technische informatie	1SNC001003C0202
Instructies en handleidingen	FPTC407734P0003
CAD Dimensional Drawing	2CDC001079B0201

## Dimensions

Product netto breedte	82 mm
Product netto diepte	108 mm
Product netto hoogte	110 mm
Product netto gewicht	1.22 kg

## Technical

Aantal hoofdcontacten NO	3
Aantal hoofdcontacten NC	0
Aantal hulpcontacten NO	1
Aantal hulpcontacten NC	1
Normen	IEC/EN 60947-1, IEC/EN 60947-4-1, UL 508, CSA C22.2 No. 14, IEC 60077-1 (applicable parts), IEC 60077-2 (applicable parts), EN 50155 (applicable parts), TR CU 001/2011 (on request), IEC 61373, For compliance confirmation on applicable parts based on your application and combination, please consult your ABB sales representatives.
Nominaal bedrijfsvoltage	Auxiliary Circuit 690 V Main Circuit 690 V
Toegekende frequentie (f)	Auxiliary Circuit 50 / 60 Hz Control Circuit 50 / 60 Hz Main Circuit 50 / 60 Hz
Conventionele vrije-lucht thermische stroom ( $I_{th}$ )	acc. to IEC 60947-4-1, Open Contactors $\Theta = 40^\circ\text{C}$ 100 A acc. to IEC 60947-5-1, $\Theta = 40^\circ\text{C}$ 16 A
Nominale bedrijfsstroom AC-1 ( $I_e$ )	(690 V) 40 °C 100 A (690 V) 55 °C 85 A (690 V) 70 °C 70 A
Nominale bedrijfsstroom AC-3 ( $I_e$ )	(415 V) 55 °C 50 A (440 V) 55 °C 45 A (500 V) 55 °C 45 A (690 V) 55 °C 35 A (380 / 400 V) 55 °C 50 A (220 / 230 / 240 V) 55 °C 53
Nominale bedrijfsvermogen AC-3 ( $P_e$ )	(415 V) 25 kW (440 V) 25 kW (500 V) 30 kW (690 V) 30 kW (380 / 400 V) 22 kW (220 / 230 / 240 V) 15 kW
Nominale bedrijfsvermogen AC-6b ( $P_e$ )	(230 / 240 V) 40 °C, 50 / 60 Hz 22 kvar (230 / 240 V) 55 °C, 50 / 60 Hz 22 kvar (230 / 240 V) 70 °C, 50 / 60 Hz 20 kvar (400 / 415 V) 40 °C, 50 / 60 Hz 38 kvar

	(400 / 415 V) 70 °C, 50 / 60 Hz 34 kvar (400 / 415 V) 55 °C, 50 / 60 Hz 38 kvar (440 V) 40 °C, 50 / 60 Hz 42 kvar (440 V) 55 °C, 50 / 60 Hz 42 kvar (440 V) 70 °C, 50 / 60 Hz 37 kvar (500 / 550 V), 40 °C, 50 / 60 Hz 48 kvar (500 / 550 V) 55 °C, 50 / 60 Hz 48 kvar (500 / 550 V) 70 °C, 50 / 60 Hz 42 kvar (690 V) 40 °C, 50 / 60 Hz 65 kvar (690 V) 55 °C, 50 / 60 Hz 65 kvar (690 V) 70 °C, 50 / 60 Hz 58.5 kvar
Nominale bedrijfsstroom AC-15 ( $I_e$ )	(500 V) 2 A (690 V) 2 A (24 / 127 V) 6 A (220 / 240 V) 4 A (380 / 400 V) 3 A
Beschermende apparaten met kortsluiting	Auxiliary Circuit - gG Type Fuses 10 A gG Type Fuses 100 A
Nominale kortstondige grensstroom ( $I_{cw}$ )	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 650 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 370 A for 0.1 s 140 A for 1 s 100 A
Maximale breekcapaciteit	cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 440 V 1300 A cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 690 V 630 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 ( $I_e$ )	(110 V) 2 Poles in Series, 40 °C 100 A (110 V) 2 Poles in Series, 55 °C 85 A (110 V) 2 Poles in Series, 70 °C 70 A (110 V) 3 Poles in Series, 40 °C 100 A (110 V) 3 Poles in Series, 55 °C 85 A (110 V) 3 Poles in Series, 70 °C 70 A (110 V) 4 Poles in Series, 40 °C 100 A (110 V) 4 Poles in Series, 55 °C 85 A (110 V) 4 Poles in Series, 70 °C 70 A (220 V) 3 Poles in Series, 40 °C 100 A (220 V) 3 Poles in Series, 55 °C 85 A (220 V) 3 Poles in Series, 70 °C 70 A (220 V) 4 Poles in Series, 40 °C 100 A (220 V) 4 Poles in Series, 55 °C 85 A (220 V) 4 Poles in Series, 70 °C 70 A (72 V) 1-Pole, 40 °C 100 A (72 V) 1-Pole, 55 °C 85 A (72 V) 1-Pole, 70 °C 70 A (72 V) 2 Poles in Series, 40 °C 100 A (72 V) 2 Poles in Series, 55 °C 85 A (72 V) 2 Poles in Series, 70 °C 70 A (72 V) 3 Poles in Series, 40 °C 100 A (72 V) 3 Poles in Series, 55 °C 85 A (72 V) 3 Poles in Series, 70 °C 70 A (72 V) 4 Poles in Series, 40 °C 100 A (72 V) 4 Poles in Series, 55 °C 85 A (72 V) 4 Poles in Series, 70 °C 70 A
Nominale bedrijfsstroom DC-3 ( $I_e$ )	(110 V) 2 Poles in Series, 40 °C 100 A (110 V) 2 Poles in Series, 55 °C 85 A (110 V) 2 Poles in Series, 70 °C 70 A (110 V) 3 Poles in Series, 40 °C 100 A (110 V) 3 Poles in Series, 55 °C 85 A (110 V) 3 Poles in Series, 70 °C 70 A (110 V) 4 Poles in Series, 40 °C 100 A (110 V) 4 Poles in Series, 55 °C 85 A (110 V) 4 Poles in Series, 70 °C 70 A (220 V) 3 Poles in Series, 40 °C 100 A

	(220 V) 3 Poles in Series, 55 °C 85 A (220 V) 3 Poles in Series, 70 °C 70 A (220 V) 4 Poles in Series, 40 °C 100 A (220 V) 4 Poles in Series, 55 °C 85 A (220 V) 4 Poles in Series, 70 °C 70 A (72 V) 1-Pole, 40 °C 100 A (72 V) 1-Pole, 55 °C 85 A (72 V) 1-Pole, 70 °C 70 A (72 V) 2 Poles in Series, 40 °C 100 A (72 V) 2 Poles in Series, 55 °C 85 A (72 V) 2 Poles in Series, 70 °C 70 A (72 V) 3 Poles in Series, 40 °C 100 A (72 V) 3 Poles in Series, 55 °C 85 A (72 V) 3 Poles in Series, 70 °C 70 A (72 V) 4 Poles in Series, 40 °C 100 A (72 V) 4 Poles in Series, 55 °C 85 A (72 V) 4 Poles in Series, 70 °C 70 A
Nominale bedrijfsstroom DC-5 ( $I_e$ )	(110 V) 2 Poles in Series, 40 °C 80 A (110 V) 2 Poles in Series, 55 °C 80 A (110 V) 2 Poles in Series, 70 °C 70 A (110 V) 3 Poles in Series, 40 °C 100 A (110 V) 3 Poles in Series, 55 °C 85 A (110 V) 3 Poles in Series, 70 °C 70 A (110 V) 4 Poles in Series, 40 °C 100 A (110 V) 4 Poles in Series, 55 °C 85 A (110 V) 4 Poles in Series, 70 °C 70 A (220 V) 3 Poles in Series, 40 °C 50 A (220 V) 3 Poles in Series, 55 °C 50 A (220 V) 3 Poles in Series, 70 °C 50 A (220 V) 4 Poles in Series, 40 °C 70 A (220 V) 4 Poles in Series, 55 °C 70 A (220 V) 4 Poles in Series, 70 °C 70 A (72 V) 1-Pole, 40 °C 50 A (72 V) 1-Pole, 55 °C 50 A (72 V) 1-Pole, 70 °C 50 A (72 V) 2 Poles in Series, 40 °C 100 A (72 V) 2 Poles in Series, 55 °C 85 A (72 V) 2 Poles in Series, 70 °C 70 A (72 V) 3 Poles in Series, 40 °C 100 A (72 V) 3 Poles in Series, 55 °C 85 A (72 V) 3 Poles in Series, 70 °C 70 A (72 V) 4 Poles in Series, 40 °C 100 A (72 V) 4 Poles in Series, 55 °C 85 A (72 V) 4 Poles in Series, 70 °C 70 A
Nominale bedrijfsstroom DC-13 ( $I_e$ )	(24 V) 6 A / 144 W (48 V) 2.8 A / 134 W (72 V) 1 A / 72 W (110 V) 0.55 A / 60 W (125 V) 0.55 A / 69 W (220 V) 0.30 A / 66 W (250 V) 0.3 / 75 W
Nominaal isolatievoltage ( $U_i$ )	acc. to IEC 60947-4-1 1000 V acc. to IEC 60947-5-1 690 V acc. to UL/CSA 600 V
Nominale impuls grensvoltage ( $U_{imp}$ )	8 kV
Mechanische duurzaamheid	10 million
Maximale mechanische schakelfrequentie	300 omwentelingen per uur
Nominale stuurstroomkringspanning ( $U_c$ )	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 7 V-A Holding at Max. Rated Control Circuit Voltage 50 Hz 2.8 W Holding at Max. Rated Control Circuit Voltage 60 Hz 7 V-A

Holding at Max. Rated Control Circuit Voltage 60 Hz 2.8 W  
 Pull-in at Max. Rated Control Circuit Voltage 50 Hz 210 V·A  
 Pull-in at Max. Rated Control Circuit Voltage 60 Hz 210 V·A

Bedieningstijd	Between Coil De-energization and NC Contact Closing 35 ... 115 ms Between Coil De-energization and NO Contact Opening 30 ... 110 ms Between Coil Energization and NC Contact Opening 27 ... 95 ms Between Coil Energization and NO Contact Closing 30 ... 100 ms
Montage op DIN-rail	TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 TH75-25 (75 x 25 mm Mounting Rail) acc. to IEC 60715
Montage door schroeven (niet meegeleverd)	2 x M6 screws placed diagonally
Verbindingscapaciteit hoofdcircuit	Flexible with Cable End 6 ... 16 mm <sup>2</sup> Rigid Cable 6 ... 25 mm <sup>2</sup>
Verbindingscapaciteit hulpcircuit	Flexible with Cable End 0.75 ... 2.5 mm <sup>2</sup> Rigid Cable 1 ... 4 mm <sup>2</sup>
Beschermingsgraad	acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP10
Terminaltype	Schroef

## Technical UL/CSA

NEMA-grootte	2
Continuous Current Rating NEMA	45 A
Horsepower Rating NEMA	(115 V AC) Single Phase 3 Hp (200 V AC) Three Phase 10 Hp (230 V AC) Single Phase 7-1/2 Hp (230 V AC) Three Phase 15 Hp (460 V AC) Three Phase 25 Hp (575 V AC) Three Phase 25 Hp
Maximale bedrijfsspanning UL/CSA	Main Circuit 600 V
Algemeen gebruik klasse UL/CSA	(600 V AC) 80 A
Paardenkrachtklasse UL/CSA	(120 V AC) Single Phase 3 hp (200 ... 208 V AC) Three Phase 15 hp (220 ... 240 V AC) Three Phase 20 hp (240 V AC) Single Phase 7-1/2 hp (440 ... 480 V AC) Three Phase 40 hp (550 ... 600 V AC) Three Phase 50 hp

## Environmental

Omgevingsluchttemperatuur	bij schakelaar uitgevoerd met thermisch overbelastingsrelais -25 ... 55 °C bij schakelaar zonder thermisch overbelastingsrelais -40 ... 70 °C bij schakelaar voor opslag -60 ... +80 °C
Maximale werkhoogte toegestaan	Without Derating 3000 m
Schok- en vibratiebestendig volgens IEC 61373	Category 1, Class B
RoHS-status	Following EU Directive 2011/65/EU

## Certificates and Declarations

CB-certificaat	CB_CN45489
CCC-certificaat	CCC_2018010304134049 CCC_2010010304402983
CQC-certificaat	CQC2018010304134049 CQC2010010304402983
CSA-certificaat	CSA_1033838_LR056745
Declaration of Conformity - CCC	2020980304001624 2020980304001225
Conformiteitsverklaring - CE	1SBD250803U1000
Declaration of Conformity - UKCA	1SBD250820U1000
EAC-certificaat	EAC_RU C-FR ME77 B01010
GOST-certificaat	GOST_POCCFRME77B07175
KC-certificaat	KC_HW02032-21001B
RMRS-certificaat	RMRS_1802704280
UL-certificaat	UL_20120830-E312527-10-1
UL-noteringskaart	UL_E312527

## Container Information

Pakketniveau 1 Units	1 stuk
Pakketniveau 1 Breedte	140 mm
Pakketniveau 1 Lengte	146 mm
Pakketniveau 1 Hoogte	96 mm
Pakketniveau 1 Brutogewicht	1.22 kg
Pakketniveau 1 EAN	3471522114792
Pakketniveau 2 Units	doos 20 stuk
Pakketniveau 2 Brutogewicht	24.4 kg

## 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

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## Categorieën

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Laagspanningsproducten en -systemen → Control Producten → Magneetschakelaars → Magneetschakelaars

