

PRODUCT-DETAILS

AF52-30-11-14

AF52-30-11-14 250-500V50/60HZ-DC Contactor



Algemene informatie

Type	AF52-30-11-14
Artikelnummer	1SBL367001R1411
EAN	3471523132443
Omschrijving	AF52-30-11-14 250-500V50/60HZ-DC Contactor
Omschrijving	<p>The AF52-30-11-14 is a 3 pole - 690 V IEC or 600 UL contactor with pre-mounted auxiliary contacts and screw terminals, controlling motors up to 22 kW / 400 V AC (AC-3) or 40 hp / 480 V UL and switching power circuits up to 100 A (AC-1) or 80 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.</p>

Ordering

Minimale bestelhoeveelheid	1 stuk
Nummer douanetarief	85364900

Popular Downloads

Instructies en handleidingen	1SBC101036M6801
CAD Dimensional	2CDC001079B0201

Drawing

Dimensions

Product netto breedte	67 mm
Product netto diepte	111 mm
Product netto hoogte	125.5 mm
Product netto gewicht	0.99 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 60947-1, UL 60947-4-1, CSA C22.2 No. 60947-1:22, CSA C22.2 No. 60947-4-1:22
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 $\Theta = 40\text{ }^{\circ}\text{C}$ 105 A acc. to IEC 60947-5-1, $\Theta = 40\text{ }^{\circ}\text{C}$ 16 A
Nominale bedrijfsstroom AC-1 (I_e)	(690 V) 40 °C 100 A (690 V) 60 °C 80 A (690 V) 70 °C 70 A
Nominale bedrijfsstroom AC-3 (I_e)	(415 V) 60 °C 53 A (440 V) 60 °C 53 A (500 V) 60 °C 45 A (690 V) 60 °C 35 A (380 / 400 V) 60 °C 53 A (220 / 230 / 240 V) 60 °C 53 A
Nominale bedrijfsstroom AC-3e (I_e)	(415 V) 60 °C 53 A (440 V) 60 °C 53 A (500 V) 60 °C 45 A (690 V) 60 °C 35 A (380 / 400 V) 60 °C 53 A (220 / 230 / 240 V) 60 °C 53 A
Nominale bedrijfsvermogen AC-3 (P_e)	(400 V) 22 kW (415 V) 30 kW (440 V) 30 kW (500 V) 30 kW (690 V) 30 kW (380 / 400 V) 22 kW (220 / 230 / 240 V) 15 kW
Nominale bedrijfsvermogen AC-3e (P_e)	(415 V) 30 kW (440 V) 30 kW (500 V) 30 kW (690 V) 30 kW (380 / 400 V) 22 kW (220 / 230 / 240 V) 15 kW
Nominale bedrijfsstroom AC-15 (I_e)	(500 V) 2 A (690 V) 2 A (24 / 127 V) 6 A (220 / 240 V) 4 A (400 / 440 V) 3 A
Nominale kortstondige grensstroom (I_{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 600 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 350 A for 0.1 s 140 A for 1 s 100 A
Maximale breekcapaciteit	cos phi=0.45 (cos phi=0.35 for $I_e > 100\text{ A}$) at 440 V 950 A cos phi=0.45 (cos phi=0.35 for $I_e > 100\text{ A}$) at 690 V 600 A

Maximale elektrische schakelfrequentie	(AC-1) 600 omwentelingen per uur (AC-15) 1200 omwentelingen per uur (AC-2 / AC-4) 150 omwentelingen per uur (AC-3) 1200 omwentelingen per uur (DC-13) 900 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, 60 °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, 60 °C 80 A (110 V) 3 Poles in Series, 70 °C 70 A (220 V) 3 Poles in Series, 40 °C 100 A (220 V) 3 Poles in Series, 60 °C 80 A (220 V) 3 Poles in Series, 70 °C 70 A (72 V) 1-Pole, 40 °C 100 A (72 V) 1-Pole, 60 °C 80 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, 60 °C 80 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, 60 °C 80 A (72 V) 3 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, 60 °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, 60 °C 80 A (110 V) 3 Poles in Series, 70 °C 70 A (220 V) 3 Poles in Series, 40 °C 100 A (220 V) 3 Poles in Series, 60 °C 80 A (220 V) 3 Poles in Series, 70 °C 70 A (72 V) 1-Pole, 40 °C 100 A (72 V) 1-Pole, 60 °C 80 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, 60 °C 80 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, 60 °C 80 A (72 V) 3 Poles in Series, 70 °C 70 A
Nominale bedrijfsstroom DC-5 (I_e)	(110 V) 2 Poles in Series, 40 °C 100 A (110 V) 2 Poles in Series, 60 °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, 60 °C 80 A (110 V) 3 Poles in Series, 70 °C 70 A (220 V) 3 Poles in Series, 40 °C 100 A (220 V) 3 Poles in Series, 60 °C 80 A (220 V) 3 Poles in Series, 70 °C 70 A (72 V) 1-Pole, 40 °C 100 A (72 V) 1-Pole, 60 °C 80 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, 60 °C 80 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, 60 °C 80 A (72 V) 3 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) 0.27 A / 60 W (250 V) 0.27 A / 68 W (400 V) 0.15 A / 60 W (500 V) 0.13 A / 65 W (600 V) 0.1 A / 60 W
Nominaal isolatievoltage (U_i)	acc. to IEC 60947-4-1 690 V acc. to IEC 60947-5-1 690 V acc. to UL/CSA 600 V
Nominale impuls grensvoltage (U_{imp})	6 kV
Maximale mechanische schakelfrequentie	3600 omwentelingen per uur
Nominale stuurstroomkringspanning	50 Hz 250 ... 500 V 60 Hz 250 ... 500 V

(U _c)	DC Operation 250 ... 500 V
Spoelverbruik	Average Holding Value 50 / 60 Hz 4 V-A Average Holding Value 50 Hz 4 V-A Average Holding Value 60 Hz 4 V-A Average Holding Value DC 2 W Average Holding Value, from Warm State 2 W
Bedieningsstijd	Between Coil De-energization and NC Contact Closing 19 ... 105 ms Between Coil De-energization and NO Contact Opening 17 ... 100 ms Between Coil Energization and NC Contact Opening 38 ... 95 ms Between Coil Energization and NO Contact Closing 42 ... 100 ms
Montage op DIN-rail	TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715
Montage door schroeven (niet meegeleverd)	2 x M4 or 2 x M6 screws placed diagonally
Verbindingscapaciteit hoofdcircuit	Flexible with Ferrule 1/2x 4 ... 35 mm ² Flexible with Insulated Ferrule 1/2x 4 ... 35 mm ² Rigid Stranded 1/2x 6 ... 35 mm ²
Verbindingscapaciteit hulpcircuit	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm ² Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm ² Rigid 1/2x 1 ... 2.5 mm ²
Verbindingscapaciteit controlecircuit	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm ² Rigid Solid 1/2x 1 ... 2.5 mm ² Rigid Stranded 1/2x 1 ... 2.5 mm ²
Kabelstriplengte	Auxiliary Circuit 10 mm Control Circuit 10 mm Main Circuit 16 mm
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
Terminaaltype	Schroef

Technical UL/CSA

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 10 hp (440 ... 480 V AC) Three Phase 40 hp (550 ... 600 V AC) Three Phase 50 hp
Verbindingscapaciteit hoofdcircuit UL/CSA	Rigid Stranded 1/2x 10-2 AWG
Verbindingscapaciteit controlecircuit UL/CSA	Rigid Solid 1/2x 18-14 AWG Rigid Stranded 1/2x 18-14 AWG
Aanhaalmoment UL/CSA	Auxiliary Circuit 11 in-lb Control Circuit 11 in-lb Main Circuit 35 in-lb

Environmental

Omgevingsluchttemperatu ur	bij schakelaar uitgevoerd met thermisch overbelastingsrelais -40 ... 70 °C bij schakelaar zonder thermisch overbelastingsrelais -40 ... 70 °C bij schakelaar voor opslag -60 ... +80 °C
Klimaatbestendig	Category B according to IEC 60947-1 Annex Q
Maximale werkhoogte toegestaan	Without Derating 3000 m
Weerstand tegen trillingen volgens IEC 60068-2-6	5 ... 300 Hz 3 g closed position / 3 g open position
Schokweerstand volgens	Closed, Shock Direction: A 25 g

IEC 60068-2-27

Closed, Shock Direction: B1 25 g
 Closed, Shock Direction: B2 15 g
 Closed, Shock Direction: C1 25 g
 Closed, Shock Direction: C2 25 g
 Open, Shock Direction: B1 5 g

RoHS-status

Following EU Directive 2011/65/EU

Certificates and Declarations

ABS-certificaat	ABS_20-2060694-PDA
BV-certificaat	BV_2634H36994B1
CB-certificaat	CB_SE-108889A1M1
CCC-certificaat	CCC_2012010304589737 CCC_2015010304824714
CQC-certificaat	CQC2015010304824714 CQC2012010304589737
Declaration of Conformity - CCC	2020980304001256 2020980304001074
Conformiteitsverklaring - CE	1SBD250000U1000
Declaration of Conformity - UKCA	1SBD250031U1000
DNV-certificaat	DNV_TAE00001AF-4
EAC-certificaat	EAC_RU_FRME77B03447
KC-certificaat	KC_HW02016-15010C
LR-certificaat	LRS_LR2002723TA-02
RINA-certificaat	RINA_ELE084013XG
RMRS-certificaat	RMRS_1802705280
UL-certificaat	UL-US-L312527-1141-10303102-9 UL-CA-L312527-4141-10303102-9
UL-noteringskaart	UL_E312527

Container Information

Pakketniveau 1 Units	doos 1 stuk
Pakketniveau 1 Breedte	150 mm
Pakketniveau 1 Lengte	150 mm
Pakketniveau 1 Hoogte	97 mm
Pakketniveau 1 Brutogewicht	1.09 kg
Pakketniveau 1 EAN	3471523132443
Pakketniveau 2 Units	doos 10 stuk
Pakketniveau 2 Breedte	250 mm
Pakketniveau 2 Lengte	300 mm
Pakketniveau 2 Hoogte	300 mm
Pakketniveau 2 Brutogewicht	10.9 kg
Pakketniveau 3 Units	240 stuk

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 categoriecode)	4758 >> Iec Contactors
E-Number (Finland)	3707024

Categorieën

Laagspanningsproducten en -systemen → Control Producten → Magneetschakelaars → Magneetschakelaars

