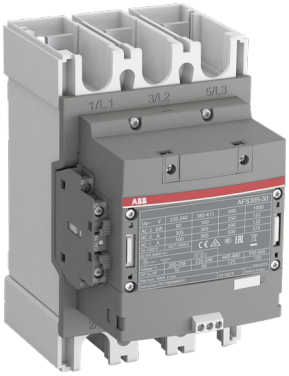
PRODUCT-DETAILS

AFS305-30-12-33

AFS305-30-12-33



Algemene informatie

Type	AFS305-30-12-33
Artikelnummer	1SFL587082R3312
EAN	7320500541401
Omschrijving	AFS305-30-12-33
Omschrijving	The AFS305-30-12-33 is a 3 pole - 1000 V IEC or 600 V UL contactor with pre-mounted 1 left (1 N.O + 1 N.C.) and fixed 1 right (1 N.C.) side mounted auxiliary contact blocks with Main Circuit Bars connections, controlling motors up to 160 kW / 400 V AC (AC-3) or 250 hp / 480 V UL and switching power circuits up to 500 A (AC-1) or 400 A UL general use. AFS contactors can be easily integrated in machine manufacturer's systems complying with main standards EN ISO 13849 and EN 62061 - guaranteeing the safe use of your machinery and equipment. An easily identifiable yellow low energy auxiliary contact block ensures the status feedback circuits required in machine safety applications. Thanks to the AF technology, the contactor has a wide control voltage range (100-250 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.

Ordering

Minimale bestelhoeveelheid	1 stuk
Nummer douanetarief	85364900

Popular Downloads

Gegevensblad, technische informatie	1SBC100208C02__
Instructies en handleidingen	1SFC100008M0201
CAD Dimensional Drawing	2CDC001079B0201

Dimensions

Product netto breedte	140 mm
Product netto diepte	180 mm
Product netto hoogte	225 mm
Product netto gewicht	4 kg

Technical

Aantal hoofdcontacten NO	3
Aantal hoofdcontacten NC	0
Aantal hulpcontacten NO	1
Aantal hulpcontacten NC	2
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 Θ = 40 °C 500 A
Nominale bedrijfsstroom AC-1 (I_e)	(1000 V) 40 °C 375 A (1000 V) 60 °C 325 A (1000 V) 70 °C 260 A (690 V) 40 °C 500 A (690 V) 60 °C 400 A (690 V) 70 °C 325 A
Nominale bedrijfsstroom AC-3 (I_e)	(415 V) 60 °C 305 A (440 V) 60 °C 305 A (500 V) 60 °C 290 A (690 V) 60 °C 290 A (1000 V) 60 °C 131 A (380 / 400 V) 60 °C 305 A (220 / 230 / 240 V) 60 °C 305 A
Nominale bedrijfsvermogen AC-3 (P_e)	(415 V) 160 kW (440 V) 160 kW (500 V) 200 kW (690 V) 250 kW (1000 V) 185 kW (380 / 400 V) 160 kW (220 / 230 / 240 V) 90 kW
Nominale remcapaciteit AC-3 volgens IEC 60947-4-1	8 x Ie AC-3
Nominaal inschakelvermogen AC-3 volgens IEC 60947-4-1	10 x Ie AC-3
Beschermende apparaten met kortsluiting	gG Type Fuses 500 A

Nominale kortstondige grensstroom (I_{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 2440 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 996 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3050 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 1409 A
Maximale breekcapaciteit	cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 440 V 4600 A cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 690 V 3800 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) 1-Pole, 40 °C 500 A (220 V) 2 Poles in Series, 40 °C 500 A (220 V) 3 Poles in Series, 40 °C 500 A
Nominale bedrijfsstroom DC-3 (I_e)	(110 V) 1-Pole, 40 °C 400 A (220 V) 2 Poles in Series, 40 °C 400 A (220 V) 3 Poles in Series, 40 °C 400 A
Nominale bedrijfsstroom DC-5 (I_e)	(110 V) 1-Pole, 40 °C 400 A (220 V) 2 Poles in Series, 40 °C 400 A (220 V) 3 Poles in Series, 40 °C 400 A
Nominaal isolatievoltage (U_i)	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to UL/CSA 600 V
Nominale impuls grensvoltage (U_{imp})	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 Uc Min. ... 1.1 x Uc Max. (at θ ≤ 70 °C)
Nominale stuurstroomkringspanning (U_c)	50 Hz 100 ... 250 V 60 Hz 100 ... 250 V DC Operation 100 ... 250 V
Spoelverbruik	Holding at Max. Rated Control Circuit Voltage 50 Hz 17.5 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 17.5 V·A Holding at Max. Rated Control Circuit Voltage DC 3 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 385 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 385 V·A Pull-in at Max. Rated Control Circuit Voltage DC 410 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 2 x 70 ... 185 mm² Rigid Al-Cable 1 x 185 ... 240 mm² Rigid Cu-Cable 1 x 6 ... 300 mm²
Verbindingscapaciteit hulpcircuit	Flexible with Ferrule 2x 0.75 ... 2.5 mm² Flexible with Insulated Ferrule 2x 0.75 ... 2.5 mm² Flexible 2x0.75 ... 2.5 mm² Solid 2 x 1 ... 4 mm² Stranded 2 x 1 .... 4 mm²
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

Technical UL/CSA

Maximale bedrijfsspanning UL/CSA	Main Circuit 600 V
Algemeen gebruik klasse	(600 V AC) 400 A

UL/CSA	
Paardenkrachtklasse UL/CSA	(200 ... 208 V AC) Three Phase 100 hp (220 ... 240 V AC) Three Phase 125 hp (440 ... 480 V AC) Three Phase 250 hp (550 ... 600 V AC) Three Phase 300 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 - 76.3 %
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 considered more energy-efficient compared to similar product on market or older products from the same line
Sustainable Material Content	Recycled Metal - 33 %

Eco Transparency

Milieuproductverklaring - EPD	1SFC100104D0201

Certificates and Declarations

CB-certificaat	SE-89316
CQC-certificaat	CQC2014010304676670
Declaration of Conformity - CCC	2020980304001305
Conformiteitsverklaring - CE	2CMT2018-005695
Declaration of Conformity - UKCA	2CMT2020-006125
EAC-certificaat	1SFC101360D1101
SUVA Certificate	2CMT2019-005858
UL-certificaat	20121217-E36588

Container Information

Pakketniveau 1 Units	doos 1 stuk
Pakketniveau 1 Breedte	263 mm

Pakketniveau 1 Lengte	203 mm
Pakketniveau 1 Hoogte	289 mm
Pakketniveau 1 Brutogewicht	4.7 kg
Pakketniveau 1 EAN	7320500541401

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)	4755 >> Contactors
E-Number (Finland)	3709027

Categorieën

Laagspanningsproducten en -systemen → Control Producten → Magneetschakelaars → Magneetschakelaars