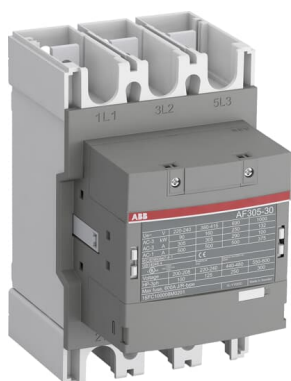


PRODUCT-DETAILS

# AF305-30-00-13

## AF305-30-00-13 Contactor



### Información General

Tipo de producto extendido	AF305-30-00-13
Código de producto	1SFL587002R1300
EAN	7320500481769
Descripción corta	AF305-30-00-13 Contactor
Descripción larga	The AF305-30-00-13 is a 3 pole - 1000 V IEC or 600 V UL contactor with Main Circuit Bars, 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. 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.

### Clasificación

Cantidad mínima de pedido	1 piece
Código arancelario	85364900

### Descargas Populares

Ficha técnica, información técnica	1SBC100192C0206
Instrucciones y manuales	1SFC100008M0201
Dimension Diagram	1SFB535001G1060

## Dimensiones

Ancho del product	140 mm
Largo del product	180 mm
Alto del producto	225 mm
Peso del product	3.9 kg

## Technical

Number of Main Contacts NO	3
Number of Main Contacts NC	0
Number of Auxiliary Contacts NO	0
Number of Auxiliary Contacts NC	0
Rated Operational Voltage	Main Circuit 1000 V
Rated Frequency (f)	Main Circuit 50 / 60 Hz
Conventional Free-air Thermal Current ( $I_{th}$ )	acc. to IEC 60947-4-1, Open Contactors $q = 40^\circ\text{C}$ 500 A
Rated Operational Current AC-1 ( $I_e$ )	(1000 V) $40^\circ\text{C}$ 375 A (1000 V) $55^\circ\text{C}$ 325 A (1000 V) $60^\circ\text{C}$ 325 A (1000 V) $70^\circ\text{C}$ 260 A (690 V) $40^\circ\text{C}$ 500 A (690 V) $55^\circ\text{C}$ 400 A (690 V) $70^\circ\text{C}$ 325 A
Rated Operational Current AC-3 ( $I_e$ )	(415 V) $55^\circ\text{C}$ 305 A (440 V) $55^\circ\text{C}$ 305 A (500 V) $55^\circ\text{C}$ 290 A (690 V) $55^\circ\text{C}$ 290 A (1000 V) $55^\circ\text{C}$ 131 A (380 / 400 V) $55^\circ\text{C}$ 305 A (220 / 230 / 240 V) $55^\circ\text{C}$ 305
Rated Operational Power 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
Rated Breaking Capacity AC-3	8 x $I_e$ AC-3
Rated Making Capacity AC-3	10 x $I_e$ AC-3
Short-Circuit Protective Devices	gG Type Fuses 500 A
Rated Short-time Withstand Current Low Voltage ( $I_{cw}$ )	at $40^\circ\text{C}$ Ambient Temp, in Free Air, from a Cold State 10 s 2440 A at $40^\circ\text{C}$ Ambient Temp, in Free Air, from a Cold State 15 min 500 A at $40^\circ\text{C}$ Ambient Temp, in Free Air, from a Cold State 1 min 996 A at $40^\circ\text{C}$ Ambient Temp, in Free Air, from a Cold State 1 s 3050 A at $40^\circ\text{C}$ Ambient Temp, in Free Air, from a Cold State 30 s 1409 A
Maximum Breaking Capacity	$\cos \phi = 0.45$ ( $\cos \phi = 0.35$ for $I_e > 100$ A) at 440 V 4600 A $\cos \phi = 0.45$ ( $\cos \phi = 0.35$ for $I_e > 100$ A) at 690 V 3800 A
Maximum Electrical Switching Frequency	(AC-1) 300 cycles per hour (AC-2 / AC-4) 150 cycles per hour (AC-3) 300 cycles per hour
Rated Operational Current DC-1 ( $I_e$ )	(110 V) 1-Pole, $40^\circ\text{C}$ 500 A (220 V) 2 Poles in Series, $40^\circ\text{C}$ 500 A (220 V) 3 Poles in Series, $40^\circ\text{C}$ 500 A
Rated Operational Current DC-3 ( $I_e$ )	(110 V) 2 Poles in Series, $40^\circ\text{C}$ 400 A (220 V) 3 Poles in Series, $40^\circ\text{C}$ 400 A
Rated Operational Current DC-5 ( $I_e$ )	(110 V) 2 Poles in Series, $40^\circ\text{C}$ 400 A (220 V) 3 Poles in Series, $40^\circ\text{C}$ 400 A

Rated Insulation Voltage (U <sub>i</sub> )	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to UL/CSA 600 V
Rated Impulse Withstand Voltage (U <sub>imp</sub> )	Main Circuit 8 kV
Mechanical Durability	5 million
Maximum Mechanical Switching Frequency	300 cycles per hour
Coil Operating Limits	(acc. to IEC 60947-4-1) 0.85 x U <sub>c</sub> Min. ... 1.1 x U <sub>c</sub> Max. (at $\theta \leq 70$ °C)
Rated Control Circuit Voltage (U <sub>c</sub> )	50 Hz 100 ... 250 V 60 Hz 100 ... 250 V DC Operation 100 ... 250 V
Coil Consumption	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 4.5 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
Operate Time	Between Coil De-energization and NO Contact Opening 37 ... 47 ms Between Coil Energization and NO Contact Closing 25 ... 55 ms
Connecting Capacity Main Circuit	Flexible 1 x 16 ... 240 mm <sup>2</sup> Rigid Al-Cable 1 x 185 ... 240 mm <sup>2</sup> Rigid Cu-Cable 1 x 6 ... 300 mm <sup>2</sup>
Connecting Capacity Auxiliary Circuit	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 1 x 1 ... 4 mm <sup>2</sup>
Grado de protección	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP00
Terminal Type	Main Circuit: Bars

## Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 1000 V
General Use Rating UL/CSA	(600 V AC) 400 A
Horsepower Rating UL/CSA	(200 V AC) Three Phase 100 hp (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

## Ambiente

Temperatura ambiente	Close to Contactor Fitted with Thermal O/L Relay (0.85 ... 1.1 U <sub>c</sub> ) -25 ... 50 °C Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 U <sub>c</sub> ) -40 ... 70 °C Close to Contactor for Storage -40 ... +70 °C
Maximum Operating Altitude Permissible	Without Derating 3000 m
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

## Certificados y Declaraciones (Número de Documento)

ABS Certificate	14-LD1092198-PDA
BV Certificate	BV_36353_A0BV
CB Certificate	SE-89316
CCS Certificate	GB14T00030
CQC Certificate	CQC2014010304676670 CQC2014010304673866
cUL Certificate	20121217-E36588
Declaration of Conformity	2020980304001305

- CCC	2020980304001068
Declaración de conformidad - CE	2CMT2015-005439
DNV Certificate	DNV_E-14043
DNV GL Certificate	DNV_E-14043
EAC Certificate	9AKK107046A8618
Environmental Information	2CMT004732 1SAC200043H0005
GL Certificate	GL_95073-14HH
Instrucciones y manuales	1SFC100008M0201
LR Certificate	LR_14_70011(E1)
PRS Certificate	TE_2092_880423_16
RINA Certificate	ELE060313XG_002
RMRS Certificate	9AKK107045A6978
RoHS Information	2CMT2015-005439
UL Listing Card	UL_E36588

## Información de Embalaje

Embalaje Nivel 1 Unidades	box 1 piece
Embalaje Nivel 1 Ancho	263 mm
Embalaje Nivel 1 Largo	203 mm
Embalaje Nivel 1 Alto	289 mm
Embalaje Nivel 1 Peso	4.6 kg
Embalaje Nivel 1 EAN	7320500481769

## Clasificaciones

Object Classification Code	Q
ETIM 4	EC000066 - Magnet contactor, AC-switching
ETIM 5	EC000066 - Magnet contactor, AC-switching
ETIM 6	EC000066 - Power contactor, AC switching
ETIM 7	EC000066 - Power contactor, AC switching
eClass	V11.0 : 27371003
UNSPSC	39121529
IDEA Granular Category Code (IGCC)	4755 >> Contactors
E-Number (Finland)	3706485
E-Number (Norway)	3210159
E-Number (Sweden)	3210159

## Categorías

Productos y sistemas de baja tensión → Aparatos de control → Contactores → Contactores

