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 PRODUCT-DETAILS

## AF38-30-00-13

### AF38-30-00-13 100-250V50/60HZ-DC Contactor




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**Información General**

Tipo de producto extendido	AF38-30-00-13
Código de producto	1SBL297001R1300
EAN	3471523111530
Descripción corta	AF38-30-00-13 100-250V50/60HZ-DC Contactor

Descripción larga	<p>The AF38-30-00-13 is a 3 pole - 690 V IEC or 600 UL contactor with screw terminals, controlling motors up to 18.5 kW / 400 V AC (AC-3) or 25 hp / 480 V UL and switching power circuits up to 50 A (AC-1) or 50 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.</p>
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**Clasificación**

Cantidad mínima de pedido	1 piece
Código arancelario	85364900

## Descargas Populares

Instrucciones y manuales	1SBC101027M6801
Dibujo dimensional CAD	2CDC001079B0201

## Dimensiones

Ancho del product	45 mm
Largo del product	86 mm
Alto del producto	86 mm
Peso del product	0.31 kg

## Technical

Número de contactos principales NO	3
Número de contactos principales NC	0
Número de contactos auxiliares NO	0
Número de contactos auxiliares NC	0
Normas	IEC/EN 60947-1, IEC/EN 60947-4-1, UL 60947-4-1, CSA C22.2 No. 60947-4-1
Tensión nominal de operación	Main Circuit 690 V
Frecuencia nominal (f)	Control Circuit 50 / 60 Hz Main Circuit 50 / 60 Hz
Corriente térmica convencional de aire libre ( $I_{th}$ )	acc. to IEC 60947-4-1, Open Contactors $\Theta = 40\text{ °C}$ 50 A
Corriente nominal de funcionamiento AC-1 ( $I_e$ )	(690 V) 40 °C 50 A (690 V) 60 °C 42 A (690 V) 70 °C 37 A
Corriente nominal de funcionamiento AC-3 ( $I_e$ )	(415 V) 60 °C 38 A (440 V) 60 °C 38 A (500 V) 60 °C 33 A (690 V) 60 °C 24 A (380 / 400 V) 60 °C 38 A (220 / 230 / 240 V) 60 °C 40 A
Corriente nominal de funcionamiento AC-3e ( $I_e$ )	(415 V) 60 °C 38 A (440 V) 60 °C 38 A (500 V) 60 °C 33 A (690 V) 60 °C 24 A (380 / 400 V) 60 °C 38 A (220 / 230 / 240 V) 60 °C 40 A
Potencia operativa nominal AC-3 ( $P_e$ )	(400 V) 18.5 kW (415 V) 18.5 kW (440 V) 22 kW (500 V) 22 kW (690 V) 22 kW (380 / 400 V) 18.5 kW (220 / 230 / 240 V) 11 kW
Potencia operativa nominal AC-3e ( $P_e$ )	(415 V) 18.5 kW (440 V) 22 kW (500 V) 22 kW (690 V) 22 kW (380 / 400 V) 18.5 kW (220 / 230 / 240 V) 11 kW
Corriente nominal de corta duración Tensión	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 350 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 50 A

baja ( $I_{cw}$ )

at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 150 A  
 at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 700 A  
 at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 225 A

Capacidad de rotura máxima  $\cos \phi=0.45$  ( $\cos \phi=0.35$  for  $I_e > 100 A$ ) at 440 V 500 A  
 $\cos \phi=0.45$  ( $\cos \phi=0.35$  for  $I_e > 100 A$ ) at 690 V 200 A

Frecuencia máxima de conmutación eléctrica (AC-1) 600 cycles per hour  
 (AC-2 / AC-4) 150 cycles per hour  
 (AC-3) 1200 cycles per hour

Corriente nominal de funcionamiento DC-1 ( $I_e$ ) (110 V) 2 Poles in Series, 40 °C 50 A  
 (110 V) 2 Poles in Series, 60 °C 42 A  
 (110 V) 2 Poles in Series, 70 °C 37 A  
 (110 V) 3 Poles in Series, 40 °C 50 A  
 (110 V) 3 Poles in Series, 60 °C 42 A  
 (110 V) 3 Poles in Series, 70 °C 37 A  
 (220 V) 3 Poles in Series, 40 °C 50 A  
 (220 V) 3 Poles in Series, 60 °C 42 A  
 (220 V) 3 Poles in Series, 70 °C 37 A  
 (72 V) 1-Pole, 40 °C 50 A  
 (72 V) 1-Pole, 60 °C 42 A  
 (72 V) 1-Pole, 70 °C 37 A  
 (72 V) 2 Poles in Series, 40 °C 50 A  
 (72 V) 2 Poles in Series, 60 °C 42 A  
 (72 V) 2 Poles in Series, 70 °C 37 A  
 (72 V) 3 Poles in Series, 40 °C 50 A  
 (72 V) 3 Poles in Series, 60 °C 42 A  
 (72 V) 3 Poles in Series, 70 °C 37 A

Corriente nominal de funcionamiento DC-3 ( $I_e$ ) (110 V) 2 Poles in Series, 40 °C 50 A  
 (110 V) 2 Poles in Series, 60 °C 42 A  
 (110 V) 2 Poles in Series, 70 °C 37 A  
 (110 V) 3 Poles in Series, 40 °C 50 A  
 (110 V) 3 Poles in Series, 60 °C 42 A  
 (110 V) 3 Poles in Series, 70 °C 37 A  
 (220 V) 3 Poles in Series, 40 °C 50 A  
 (220 V) 3 Poles in Series, 60 °C 42 A  
 (220 V) 3 Poles in Series, 70 °C 37 A  
 (72 V) 1-Pole, 40 °C 50 A  
 (72 V) 1-Pole, 60 °C 42 A  
 (72 V) 1-Pole, 70 °C 37 A  
 (72 V) 2 Poles in Series, 40 °C 50 A  
 (72 V) 2 Poles in Series, 60 °C 42 A  
 (72 V) 2 Poles in Series, 70 °C 37 A  
 (72 V) 3 Poles in Series, 40 °C 50 A  
 (72 V) 3 Poles in Series, 60 °C 42 A  
 (72 V) 3 Poles in Series, 70 °C 37 A

Corriente nominal de funcionamiento DC-5 ( $I_e$ ) (110 V) 2 Poles in Series, 40 °C 50 A  
 (110 V) 2 Poles in Series, 60 °C 42 A  
 (110 V) 2 Poles in Series, 70 °C 37 A  
 (110 V) 3 Poles in Series, 40 °C 50 A  
 (110 V) 3 Poles in Series, 60 °C 42 A  
 (110 V) 3 Poles in Series, 70 °C 37 A  
 (220 V) 3 Poles in Series, 40 °C 25 A  
 (220 V) 3 Poles in Series, 60 °C 25 A  
 (220 V) 3 Poles in Series, 70 °C 25 A  
 (72 V) 1-Pole, 40 °C 25 A  
 (72 V) 1-Pole, 60 °C 25 A  
 (72 V) 1-Pole, 70 °C 25 A  
 (72 V) 2 Poles in Series, 40 °C 50 A  
 (72 V) 2 Poles in Series, 60 °C 42 A  
 (72 V) 2 Poles in Series, 70 °C 37 A  
 (72 V) 3 Poles in Series, 40 °C 50 A  
 (72 V) 3 Poles in Series, 60 °C 42 A  
 (72 V) 3 Poles in Series, 70 °C 37 A

Tensión nominal de aislamiento ( $U_i$ ) acc. to IEC 60947-4-1 690 V  
 acc. to UL/CSA 600 V

Tensión nominal soportada por impulsos ( $U_{imp}$ ) 6 kV

Frecuencia máxima de conmutación mecánica 3600 cycles per hour

Tensión nominal del circuito de control (U <sub>c</sub> )	50 Hz 100 ... 250 V 60 Hz 100 ... 250 V DC Operation 100 ... 250 V
Tiempo de funcionamiento	Between Coil De-energization and NC Contact Closing 13 ... 98 ms Between Coil De-energization and NO Contact Opening 11 ... 95 ms Between Coil Energization and NC Contact Opening 38 ... 90 ms Between Coil Energization and NO Contact Closing 40 ... 95 ms
Montaje en contactores	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
Montaje mediante tornillos (no suministrados)	2 x M4 screws placed diagonally
Capacidad de conexión del circuito principal	Flexible with Ferrule 1/2x 1.5 ... 10 mm <sup>2</sup> Flexible with Insulated Ferrule 1x 1.5 ... 10 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 1.5 ... 4 mm <sup>2</sup> Rigid Solid 1/2x 2.5 ... 4 mm <sup>2</sup> Rigid Stranded 1/2x 2.5 ... 10 mm <sup>2</sup>
Conexión del circuito de control de capacidad	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm <sup>2</sup> Rigid Solid 1/2x 1 ... 2.5 mm <sup>2</sup> Rigid Stranded 1/2x 1 ... 2.5 mm <sup>2</sup>
Longitud de pelado del cable	Control Circuit 10 mm Main Circuit 14 mm
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 IP20
Tipo de terminal	Screw Terminals

## Technical UL/CSA

Tensión máxima de funcionamiento UL/CSA	Main Circuit 600 V
Clasificación de uso general UL/CSA	(600 V AC) 50 A
Potencia nominal UL/CSA	(120 V AC) Single Phase 2 hp (200 ... 208 V AC) Three Phase 10 hp (220 ... 240 V AC) Three Phase 10 hp (240 V AC) Single Phase 5 hp (440 ... 480 V AC) Three Phase 25 hp (550 ... 600 V AC) Three Phase 30 hp
Capacidad de conexión del circuito principal UL/CSA	Rigid Solid 1/2x 14-10 AWG Rigid Stranded 1/2x 14-8 AWG
Circuito de control de la capacidad de conexión UL/CSA	Rigid Solid 1/2x 18-14 AWG Rigid Stranded 1/2x 18-14 AWG
Par de apriete UL/CSA	Control Circuit 11 in-lb Main Circuit 22 in-lb

## Ambiente

Temperatura ambiente	Close to Contactor Fitted with Thermal O/L Relay -25 ... 60 °C Close to Contactor without Thermal O/L Relay -40 ... 70 °C Close to Contactor for Storage -60 ... +80 °C
Resistencia climática	Category B according to IEC 60947-1 Annex Q
Altitud máxima de funcionamiento permisible	Without Derating 3000 m
Resistencia a los golpes según IEC 60068-2-27	Closed, Shock Direction: B1 25 g Open, Shock Direction: B1 5 g Shock Direction: A 30 g Shock Direction: B2 15 g

Shock Direction: C1 25 g

Shock Direction: C2 25 g

Resistencia a las  
vibraciones según IEC  
60068-2-6

4g Closed Position &amp; 2g Open position 5 ... 300 Hz

## Material Compliance

Plantilla de notificación de minerales de conflicto (CMRT)	9AKK108467A5658
Declaración REACH	2CMT2021-006202
Información sobre RoHS	2CMT2021-006277
Estado de RoHS	Following EU Directive 2011/65/EU
Toxic Substances Control Act - TSCA	2CMT2023-006525
WEEE B2C / B2B	Business To Business
Categoría RAEE	5. Small Equipment (No External Dimension More Than 50 cm)

## Certificados y Declaraciones (Número de Documento)

Certificado ABS	ABS_20-2060694-PDA
Certificado BV	BV_2634H24898C0
Certificado CB	CB_SE-112316
Certificado CCC	CCC_2010010304445623
Certificado CQC	CQC2010010304445623 CQC2020010304294316
Declaración de conformidad - CCC	2020980304001254 2020980304001052
Declaración de conformidad - CE	1SBD250000U1000
Declaración de conformidad - UKCA	1SBD250031U1000
Certificado DNV	DNV_TAE00001AF-4
Certificado EAC	EAC_RU_FRME77B03447
Certificado GOST	GOST_POCCFR.ME77.B07175.pdf
Certificado KC	KC_HW02016-15001C
Certificado LR	LRS_LR23403517TA-02
Certificado RINA	RINA_ELE240318XG
Certificado RMRS	RMRS_1802705280
Certificado UL	UL-US-2150887-5 UL-CA-2142658-5
Tarjeta de listado UL	E312527

## Información de Embalaje

Embalaje Nivel 1 Unidades	box 1 piece
Embalaje Nivel 1 Ancho	87 mm
Embalaje Nivel 1 Largo	87 mm
Embalaje Nivel 1 Alto	47 mm
Embalaje Nivel 1 Peso	0.31 kg
Embalaje Nivel 1 EAN	3471523111530
Embalaje Nivel 2 Unidades	box 21 piece
Embalaje Nivel 2 Ancho	250 mm

Embalaje Nivel 2 Largo	300 mm
Embalaje Nivel 2 Alto	315 mm
Embalaje Nivel 2 Peso	13.95 kg
Paquete Nivel 3	1080 piece
Unidades	

## Clasificaciones

Código de clasificación de objetos	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
ETIM 8	EC000066 - Power contactor, AC switching
Clase electrónica	V11.0 : 27371003
UNSPSC	39121529
Código de categoría granular de IDEA (IGCC)	4758 >> lec Contactors
Número E (Finlandia)	3706309
Número E (Suecia)	3211386

## Categorías

Productos y sistemas de baja tensión → Aparatos de control → Contactores → Contactores → AF Contactors → AF38

