



 PRODUCT-DETAILS

AF52-30-00-13

AF52-30-00-13 100-250V50/60HZ-DC Contactor



Información General

Tipo de producto extendido	AF52-30-00-13
Código de producto	1SBL367001R1300
EAN	3471523132337
Descripción corta	AF52-30-00-13 100-250V50/60HZ-DC Contactor
Descripción larga	The AF52-30-00-13 is a 3 pole - 690 V IEC or 600 UL contactor with 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 (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

Instrucciones y manuales

1SBC101036M6801

Dibujo dimensional CAD

2CDC001079B0201

Dimensiones

Ancho del product	55 mm
Largo del product	111 mm
Alto del product	125.5 mm
Peso del product	0.95 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 60947-1, UL 60947-4-1, CSA C22.2 No. 60947-1:22, CSA C22.2 No. 60947-4-1:22
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 $\Theta = 40\text{ °C}$ 105 A
Corriente nominal de funcionamiento AC-1 (I_e)	(690 V) 40 °C 100 A (690 V) 60 °C 80 A (690 V) 70 °C 70 A
Corriente nominal de funcionamiento 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
Corriente nominal de funcionamiento 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
Potencia operativa nominal 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
Potencia operativa nominal 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
Corriente nominal de corta duración Tensión baja (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
Capacidad de rotura máxima	cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 440 V 950 A cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 690 V 600 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	(110 V) 2 Poles in Series, 40 °C 100 A

funcionamiento DC-1 (I_e)

(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

Corriente nominal de funcionamiento 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

Corriente nominal de funcionamiento 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

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_c)

50 Hz 100 ... 250 V
 60 Hz 100 ... 250 V
 DC Operation 100 ... 250 V

Consumo de la bobina

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

Tiempo de funcionamiento

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

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 or 2 x M6 screws placed diagonally

Capacidad de conexión del circuito principal	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
Conexión del circuito de control de capacidad	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
Longitud de pelado del cable	Control Circuit 10 mm Main Circuit 16 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 IP10
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) 80 A
Potencia nominal 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
Capacidad de conexión del circuito principal UL/CSA	Rigid Stranded 1/2x 10-2 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 35 in-lb

Ambiente

Temperatura ambiente	Close to Contactor Fitted with Thermal O/L Relay -40 ... 70 °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: A 25 g 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
Resistencia a las vibraciones según IEC 60068-2-6	3g Closed Position & 3g 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)

Eco Transparency

Declaración Ambiental de Producto - EPD	2TFP200016A1001 1SBD250584E1000
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Certificados y Declaraciones (Número de Documento)

Certificado ABS	ABS_20-2060694-PDA
Certificado BV	BV_2634H36994B1
Certificado CB	CB_SE-108889A1M2
Certificado CCC	CCC_2012010304589737 CCC_2015010304824714
Certificado CQC	CQC2015010304824714 CQC2012010304589737
Declaración de conformidad - CCC	2020980304001256 2020980304001074
Declaración de conformidad - CE	1SBD250000U1000
Declaración de conformidad - UKCA	1SBD250031U1000
Certificado DNV	DNV_TAE00001AF-4
Certificado EAC	EAC RU FRME77B03447
Certificado KC	KC_HW02016-15010C
Certificado LR	LRS_LR23403517TA-02
Certificado RINA	RINA_ELE084013XG
Certificado RMRS	RMRS_1802705280
Certificado UL	UL-US-L312527-1141-10303102-9 UL-CA-L312527-4141-10303102-9
Tarjeta de listado UL	UL_E312527

Información de Embalaje

Embalaje Nivel 1 Unidades	box 1 piece
Embalaje Nivel 1 Ancho	150 mm
Embalaje Nivel 1 Largo	150 mm
Embalaje Nivel 1 Alto	97 mm
Embalaje Nivel 1 Peso	1.05 kg
Embalaje Nivel 1 EAN	3471523132337
Embalaje Nivel 2 Unidades	box 10 piece
Embalaje Nivel 2 Ancho	250 mm
Embalaje Nivel 2 Largo	300 mm
Embalaje Nivel 2 Alto	300 mm
Embalaje Nivel 2 Peso	10.5 kg
Paquete Nivel 3 Unidades	240 piece

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 >> Iec Contactors
Número E (Finlandia)	3707016
Número E (Suecia)	3210039

Categorías

Productos y sistemas de baja tensión → Aparatos de control → Contactores → Contactores → AF Contactors → AF52

