

PRODUCT-DETAILS

AFS38-30-22-11

AFS38-30-22-11 24-60V50/60HZ 20-60VDC

Contactador



Información General

Tipo de producto extendido	AFS38-30-22-11
Código de producto	1SBL297082R1122
EAN	3471523005495
Descripción corta	AFS38-30-22-11 24-60V50/60HZ 20-60VDC Contactador

Descripción larga

The AFS38-30-22-11 is a 3 pole - 690 V IEC or 600 V UL contactor with fixed 2 N.O + 2 N.C. front mounted auxiliary contact blocks with screw connections, 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. 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 (24 ... 60 V), 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	1SBC101052M6801
Dibujo dimensional CAD	2CDC001079B0201
Diagrama de dimensiones	DNV_TAE00001AF-4

Dimensiones

Ancho del product	45 mm
Largo del product	119.5 mm
Alto del producto	86 mm
Peso del product	0.36 kg

Technical

Número de contactos principales NO	3
Número de contactos principales NC	0
Número de contactos auxiliares NO	2
Número de contactos auxiliares NC	2
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	Auxiliary Circuit 690 V Main Circuit 690 V
Frecuencia nominal (f)	Auxiliary Circuit 50 / 60 Hz 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 $\Theta = 40^\circ\text{C}$ 50 A acc. to IEC 60947-5-1, $\Theta = 40^\circ\text{C}$ 16 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 funcionamiento 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
Corriente nominal de corta duración Tensión baja (I_{cw})	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 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 for 0.1 s 140 A for 1 s 100 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-15) 1200 cycles per hour (AC-2 / AC-4) 150 cycles per hour (AC-3) 1200 cycles per hour (DC-13) 900 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
Corriente nominal de funcionamiento 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
Tensión nominal de aislamiento (U_i)	acc. to IEC 60947-4-1 690 V acc. to IEC 60947-5-1 690 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 24 ... 60 V 60 Hz 24 ... 60 V DC Operation 20 ... 60 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 ² Flexible with Insulated Ferrule 1x 1.5 ... 10 mm ² Flexible with Insulated Ferrule 2x 1.5 ... 4 mm ² Rigid Solid 1/2x 2.5 ... 4 mm ² Rigid Stranded 1/2x 2.5 ... 10 mm ²
Capacidad de conexión del circuito auxiliar	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
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	Auxiliary Circuit 10 mm Control Circuit 10 mm Main Circuit 14 mm
Grado de protección	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 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
Capacidad de conexión Circuito auxiliar UL/CSA	Rigid Solid 1/2x 18-14 AWG Rigid Stranded 1/2x 18-14 AWG
Circuito de control de la capacidad de conexión	Rigid Solid 1/2x 18-14 AWG Rigid Stranded 1/2x 18-14 AWG

UL/CSA

Par de apriete UL/CSA

Auxiliary Circuit 11 in-lb
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
Declaración REACH	2CMT2021-006202
Resistencia a los golpes según IEC 60068-2-27	Closed, Shock Direction: A 30 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
Resistencia a las vibraciones según IEC 60068-2-6	5 ... 300 Hz 4 g closed position / 2 g open position
Información sobre RoHS	2CMT2021-006277
Estado de RoHS	Following EU Directive 2011/65/EU

Certificados y Declaraciones (Número de Documento)

Certificado ABS	ABS_20-2060694-PDA
Certificado CB	CB_SE-96552
Certificado CCC	CCC_2010010304445623
Certificado CQC	CQC2010010304445623
Declaración de conformidad - CCC	2020980304001254
Declaración de conformidad - CE	1SBD250022U1000
Declaración de conformidad - UKCA	1SBD250044U1000
Certificado DNV	DNV_TAE00001AF-4
Certificado EAC	EAC_RUC-FRME77B03199
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	121 mm
Embalaje Nivel 1 Alto	47 mm
Embalaje Nivel 1 Peso	0.36 kg
Embalaje Nivel 1 EAN	3471523005495

Embalaje Nivel 2 Unidades	box 18 piece
Embalaje Nivel 2 Ancho	250 mm
Embalaje Nivel 2 Largo	300 mm
Embalaje Nivel 2 Alto	315 mm
Embalaje Nivel 2 Peso	12.96 kg
Paquete Nivel 3 Unidades	864 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)	3708056

Categorías

Productos y sistemas de baja tensión → Aparatos de control → Contactores → Contactores → AFS Contactors → AFS38

