

PRODUCT-DETAILS

AF580-30-11-70

AF580-30-11 100-250V 50/60Hz / 100-250V DC

Contactora



Informações gerais

Tipo de produto alargado	AF580-30-11-70
ID do produto	1SFL617001R7011
EAN	7320500217696
Descrição do catálogo	AF580-30-11 100-250V 50/60Hz / 100-250V DC Contactora

Descrição longa	The AF580-30-11-70 is a 3 pole - 1000 V IEC or 600 V UL contactor with pre-mounted auxiliary contacts and Main Circuit Bars, controlling motors up to 315 kW / 400 V AC (AC-3) or 500 hp / 480 V UL and switching power circuits up to 800 A (AC-1) or 750 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.
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Ordering

Quantidade Mínima de Encomenda	1 piece
Número de tarifa aduaneira	85364900

Popular Downloads

Ficha de dados, informação técnica	1SBC100192C0206
Instruções e Manuais	1SFC380023-en
CAD Dimensional Drawing	2CDC001079B0201
Diagrama de medidas	53540919-60

Dimensions

Largura Líquida do Produto	210 mm
Profundidade/Compriment o Líquidos do Produto	242 mm
Altura Líquida do Produto	283 mm
Peso Líquido do Produto	13.6 kg

Technical

Number of Main Contacts NO	3
Number of Main Contacts NC	0
Number of Auxiliary Contacts NO	1
Number of Auxiliary Contacts NC	1
Tensão operacional nominal	Main Circuit 1000 V
Frequência nominal (f)	Main Circuit 50 / 60 Hz
Conventional Free-air Thermal Current (I_{th})	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 800 A
Rated Operational Current AC-1 (I_e)	(1000 V) 40 °C 800 A (1000 V) 55 °C 700 A (1000 V) 70 °C 580 A (690 V) 40 °C 800 A (690 V) 55 °C 700 A (690 V) 70 °C 580 A
Rated Operational Current AC-3 (I_e)	(415 V) 55 °C 580 A (440 V) 55 °C 580 A (500 V) 55 °C 580 A (690 V) 55 °C 500 A (1000 V) 55 °C 250 A (380 / 400 V) 55 °C 580 A (220 / 230 / 240 V) 55 °C 580 A
Rated Operational Power AC-3 (P_e)	(415 V) 355 kW (440 V) 355 kW (500 V) 400 kW (690 V) 500 kW (1000 V) 355 kW (380 / 400 V) 315 kW (220 / 230 / 240 V) 160 kW
Rated Breaking Capacity AC-3	8 x I_e AC-3
Rated Making Capacity AC-3	10 x I_e AC-3
Dispositivos com proteção de curto-circuito	gG Type Fuses 1000 A

Rated Short-time Withstand Current Low Voltage (I_{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 6400 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 1300 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 7000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 4500 A
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 440 V 6000 A cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 690 V 5000 A
Maximum Electrical Switching Frequency	(AC-1) 300 cycles per hour (AC-2 / AC-4) 60 cycles per hour (AC-3) 300 cycles per hour
Rated Operational Current DC-1 (I_e)	(110 V) 1-Pole, 40 °C 800 A (110 V) 2 Poles in Series, 40 °C 800 A (220 V) 3 Poles in Series, 40 °C 800 A (600 V) 3 Poles in Series, 40 °C 800 A (850 V) 3 Poles in Series, 40 °C 800 A
Rated Operational Current DC-3 (I_e)	(110 V) 1-Pole, 40 °C 800 A (110 V) 2 Poles in Series, 40 °C 800 A (220 V) 3 Poles in Series, 40 °C 800 A (600 V) 3 Poles in Series, 40 °C 800 A
Rated Operational Current DC-5 (I_e)	(110 V) 1-Pole, 40 °C 800 A (110 V) 2 Poles in Series, 40 °C 800 A (220 V) 3 Poles in Series, 40 °C 800 A (600 V) 3 Poles in Series, 40 °C 800 A
Rated Insulation Voltage (U_i)	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to UL/CSA 600 V
Rated Impulse Withstand Voltage (U_{imp})	Main Circuit 8 kV
Mechanical Durability	3 million
Maximum Mechanical Switching Frequency	300 cycles per hour
Coil Operating Limits	(acc. to IEC 60947-4-1) 0.85 x U_c Min. ... 1.1 x U_c Max. (at $\theta \leq 70$ °C)
Rated Control Circuit Voltage (U_c)	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 12 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 12 V·A Holding at Max. Rated Control Circuit Voltage DC 5 V·A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 880 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 880 V·A Pull-in at Max. Rated Control Circuit Voltage DC 880 V·A
Operate Time	Between Coil De-energization and NC Contact Closing 50 ... 70 ms Between Coil De-energization and NO Contact Opening 53 ... 73 ms Between Coil Energization and NC Contact Opening 45 ... 115 ms Between Coil Energization and NO Contact Closing 50 ... 120 ms
Connecting Capacity Main Circuit	Bar 52 mm ² Rigid Al-Cable 300 mm ² Rigid Cu-Cable 300 mm ²
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 2.5 mm ² Flexible 2x0.75 ... 2.5 mm ² Solid 2 x 1 ... 4 mm ² Stranded 1 x 1 ... 4 mm ²
Grau de proteção	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP00
Tipo de terminal	Main Circuit: Bars

Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 1000 V
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General Use Rating UL/CSA	(600 V AC) 750 A
Classificação de potência UL/CSA	(200 V AC) Three Phase 200 hp (208 V AC) Three Phase 200 hp (220 ... 240 V AC) Three Phase 250 hp (440 ... 480 V AC) Three Phase 500 hp (550 ... 600 V AC) Three Phase 600 hp

Environmental

Temperatura do ar ambiente	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 Close to Contactor for Storage -40 ... +70 °C
Altitude de operação máxima permissível	Without Derating 3000 m
Resistência ao Choque de acordo com IEC 60068-2-27	Shock Direction: A 5 g Shock Direction: B1 5 g Shock Direction: B2 5 g Shock Direction: C1 5 g Shock Direction: C2 5 g
Estado RoHS	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

Certificates and Declarations (Document Number)

Certificado ABS	15-LD1408622-PDA
Certificado BV	BV_13409-C0BV
CB Certificate	SE-82863
CCS Certificate	GB14T00030
CQC Certificate	CQC2007010304256684 CQC2012010304540080
Declaration of Conformity - CCC	2020980304001301 2020980304001045
Declaração de conformidade -CE	2CMT2019-005796
Declaration of Conformity - UKCA	2CMT2020-006118
Certificado DNV	DNV_E-10966
DNV GL Certificate	TAE00001W1
EAC Certificate	9AKK107046A8618
Informação ambiental	1SFC101005D0201 1SAC200044H0006
Certificado GL	GL_42988-02HH
Instruções e Manuais	1SFC380023-en
LOVAG Certificate	FI107
Certificado LR	16-20064
Certificado PRS	TE_2092_880423_16
Certificado RINA	ELE060313XG_002
Certificado RMRS	9AKK107045A6978
Informação RoHS	2CMT2021-006277
Certificado UL	UL_20111101-E36588
UL Listing Card	UL_E36588

Container Information

Unidades de embalagem Nível 1	box 1 piece
Largura da embalagem Nível 1	280 mm
Profundidade/Compriment o da embalagem Nível 1	375 mm
Altura da embalagem Nível 1	310 mm
Peso bruto da embalagem Nível 1	15 kg
Nível de Embalagem 1 EAN	7320500217696

Classifications

Código de classificação do objeto	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
eClass	V11.0 : 27371003
UNSPSC	39121529
Código de Categoria Granular IDEA (IGCC)	4755 >> Contactors
E-Number (Finland)	3709334
E-Number (Norway)	4115296
E-Number (Sweden)	3228356

Categorias

Produtos e Sistemas de Baixa Tensão → Produtos para controle → Contatores → Contatores

