



Detalhes do produto

AF52-30-00-13

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

Contactora



Informações gerais	
Tipo de produto alargado:	AF52-30-00-13
ID do produto:	1SBL367001R1300
EAN:	3471523132337
Descrição do catálogo:	AF52-30-00-13 100-250V50/60HZ-DC Contactora
Descrição longa:	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.
Display Name:	AF52-30-00-13

Ordering	
Quantidade Mínima de Encomenda:	1 piece

Número de tarifa aduaneira: 85364900

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EPLAN Data:	9AAC175973_EPLAN
Ficha de dados, informação técnica:	1SBC100214C0202
Instruções e Manuais:	1SBC101036M6801
Instruções e Manuais (Parte 2):	1SAC200017M0002
CAD Dimensional Drawing:	2CDC001079B0201

Dimensions

Largura Líquida do Produto:	55 mm
Profundidade/Comprimento Líquidos do Produto:	111 mm
Altura Líquida do Produto:	125.5 mm
Peso Líquido do Produto:	0.95 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
Número de polos:	3P
Normas:	IEC/EN 60947-1, IEC/EN 60947-4-1, UL 60335-2-40 LZGH2 A2L, UL 60947-1, UL 60947-4-1, CSA C22.2 No. 60335-2-40 LZGH2 A2L, CSA C22.2 No. 60947-1:22, CSA C22.2 No. 60947-4-1:22
Tensão operacional nominal:	Main Circuit 690 V
Frequência nominal (f):	Control Circuit 50 / 60 Hz Main Circuit 50 / 60 Hz
Conventional Free-air Thermal Current (I_{th} acc. to IEC 60947-4-1, Open Contactors $\Theta = 40\text{ °C}$ 105 A):	
Rated Operational Current AC-1 (I_e):	(690 V) 40 °C 100 A (690 V) 60 °C 80 A (690 V) 70 °C 70 A
Rated Operational Current 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
Rated Operational Current 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

Rated Operational Current DC-1 (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

Rated Operational Current 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

Rated Operational Current 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

Rated Operational Power 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

Rated Operational Power 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

Rated Short-time Withstand Current Low Voltage (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
Maximum Breaking Capacity:	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
Rated Insulation Voltage (U_i):	acc. to IEC 60947-4-1 690 V acc. to UL/CSA 600 V
Rated Impulse Withstand Voltage (U_{imp}):	6 kV
Maximum Electrical Switching Frequency:	(AC-1) 600 cycles per hour (AC-2 / AC-4) 150 cycles per hour (AC-3) 1200 cycles per hour
Maximum Mechanical Switching Frequency:	3600 cycles per hour
Rated Control Circuit Voltage (U_c):	50 Hz 100 ... 250 V 60 Hz 100 ... 250 V DC Operation 100 ... 250 V
Coil Consumption:	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
Power Loss:	at Rated Operating Conditions AC-1 per Pole 6.3 W at Rated Operating Conditions AC-3 per Pole 1.7 W
Operate Time:	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
Montagem na calha DIN:	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
Mounting by Screws (not supplied) :	2 x M4 or 2 x M6 Screws Placed Diagonally
Connecting Capacity Main Circuit:	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
Connecting Capacity Control Circuit:	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
Wire Stripping Length:	Control Circuit 10 mm Main Circuit 16 mm
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 IP10
Recommended Screw Driver:	Pozidriv PZ
Binário de aperto:	Control Circuit 1.2 N·m Main Circuit 4 N·m
Tipo de terminal:	Screw Terminals
Nome de Produto:	Block Contactor

Technical UL/CSA

Maximum Operating Voltage UL/CSA:	Main Circuit 600 V
General Use Rating UL/CSA:	(600 V AC) 80 A

Classificação de potência 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
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Connecting Capacity Main Circuit UL/CSA:Rigid Stranded 1/2x 10-2 AWG

Connecting Capacity Control Circuit UL/CSA: Rigid Solid 1/2x 18-14 AWG
Rigid Stranded 1/2x 18-14 AWG

Tightening Torque UL/CSA: Control Circuit 11 in-lb
Main Circuit 35 in-lb

Full Load Amps Motor Use: (120 V AC) Single Phase 34 A
(200 ... 208 V AC) Three Phase 48.3 A
(220 ... 240 V AC) Three Phase 54 A
(240 V AC) Single Phase 50 A
(440 ... 480 V AC) Three Phase 52 A
(550 ... 600 V AC) Three Phase 52 A

Environmental

Temperatura do ar 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

Climatic Withstand: Category B according to IEC 60947-1 Annex Q

Altitude de operação máxima permissível: Without Derating 3000 m

Resistência ao Choque de acordo com 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

Resistance to Vibrations: 3g Closed Position & 3g Open Position 5 ... 300 Hz

Pollution Degree: 3

Material Compliance

Conflict Minerals Reporting Template (CMRT): 9AKK108467A5658

REACH Declaration: 2CMT2021-006202

Informação RoHS: 2CMT2021-006277

Estado RoHS: Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

SCIP: 0112cbf0-8178-43d5-afe5-258ce47d676c France

SCIP simplificado:	203d519c-f023-42f6-a384-24e520c6d8b3 Germany f103c547-b240-47ad-bef9-7d2e65ea3e7e Sweden 510faff0-7666-44b3-a702-3590e5746524 Poland 1fe30ce2-7e6a-4ae1-998d-3769559d02ee France 64d6929f-434b-4b58-a91b-637dd7ba6d3a Germany ca5fbd4b-0e51-4417-9a58-acb0708afe24 Finland 87e53397-35a1-42ad-ba68-befc12cedfda Italy b9873bdd-a59a-477a-a35d-3d664d0d022c Netherlands aa64e587-e9f0-4332-b755-e5cf0583458d Greece c1fac5cf-fc89-4d9a-b38b-55ec371a046e Poland 8ccb50f5-9561-448d-bfb5-ae5746b35c4c Norway c8130e79-9338-41f4-b1de-4a54f9089e95 Germany 149edc09-3bb3-4a16-9942-bfa6433dcd08 Denmark 808a8d20-e14e-4644-b47e-6b965fc01ad3 Germany 1e6e9d74-c295-4bb9-aec1-88c8d5d2f8b5 Czech Republic 3ff4f900-29bc-4771-ae06-31af5fc42ac6 Poland 8404309e-8ddd-495b-aa8b-4dbc56b5097d Portugal a375f64e-e126-4d9e-ae9a-56689d4570d6 Hungary 79087227-6a51-4db5-982d-ee84f921f0fc Belgium 28c79fd5-8c97-4f39-b4d3-005d2419cbdb Spain 921f5c0f-583b-49f0-b414-485614d6643b Sweden 79f17cd0-bd46-424d-8f63-37d57e4af7ad Bulgaria 479d4957-05c4-421d-a5bf-045bb0cd69e6 Germany
Toxic Substances Control Act - TSCA:	2CMT2023-006525
REEE B2C / B2B:	Business To Business
Categoria REEE:	5. Small Equipment (No External Dimension More Than 50 cm)

ABB EcoSolutions

ABB EcoSolutions:	Sim
ABB Site Meeting Group Waste To Landfill Target:	No non-hazardous waste is sent to a landfill
EcoSolutions Profile:	1SBC100156C0308
End Of Life Disassembling Instructions:	1SBC101081M6801
Environmental Product Declaration - EPD:	1SBD250584E1000
Improved Energy Efficiency for Customers:	Product Efficiency - Product considered more energy-efficient compared to similar product on market or older products from the same line Product Efficiency - Product requires less energy to operate compared to similar product on market or older products from the same line
Recyclability Rate of the Product acc. to EN45555:	Design for Closing Resource Loops - Standard EN45555 - 91.9 %

Certificates and Declarations

A2L Certificate – UL:	9AKK108469A4890 9AKK108469A4892
Certificado ABS:	ABS_20-2060694-PDA
Certificado BV:	BV_2634H36994B2
CB Certificate:	SE-115941
CCC Certificate:	CCC_2024010304648524
Declaration of Conformity - CCC:	2020980304001256 2020980304001074
Declaração de conformidade -CE:	1SBD250000U1000
Declaration of Conformity - UKCA:	1SBD250031U1000

Certificado DNV:	DNV_TAE00001AF-4
KC Certificate:	KC_HW02016-15010C
Certificado LR:	LRS_LR23403517TA-02
Certificado RINA:	RINA_ELE084013XG
Certificado RMRS:	RMRS_1802705280
Certificado UL:	UL-US-L312527-1141-10303102-19 UL-CA-L312527-4141-10303102-19
UL Listing Card:	UL_E312527

Container Information

Unidades de embalagem Nível 1:	box 1 piece
Largura da embalagem Nível 1:	150 mm
Profundidade/Comprimento da embalagem Nível 1:	150 mm
Altura da embalagem Nível 1:	97 mm
Peso bruto da embalagem Nível 1:	1.05 kg
Nível de Embalagem 1 EAN:	3471523132337

External Classifications and Standards

Código de classificação do objeto:	Q
ETIM 7:	EC000066 - Power contactor, AC switching
ETIM 8:	EC000066 - Power contactor, AC switching
ETIM 9:	EC000066 - Power contactor, AC switching
eClass:	V11.0 : 27371003
UNSPSC:	39121529
Código de Categoria Granular IDEA (IGCC):	4758 >> Iec Contactors
E-Number (Finland):	3707016
E-Number (Sweden):	3210039

Acessório

Identificador	Descrição	tipo	Quantidade	Unidade de Medida
1SBN010015R1001	CE5-01D0.1 Auxiliary Contact Block	CE5-01D0.1	1	piece
1SBN010015R1010	CE5-10D0.1 Auxiliary Contact Block	CE5-10D0.1	1	piece
1SBN010016R1001	CE5-01W0.1 Auxiliary Contact Block	CE5-01W0.1	1	piece
1SBN010016R1010	CE5-10W0.1 Auxiliary Contact Block	CE5-10W0.1	1	piece
1SBN010017R1001	CE5-01D2 Auxiliary Contact Block	CE5-01D2	1	piece

1SBN010017R1010	CE5-10D2 Auxiliary Contact Block	CE5-10D2	1	piece
1SBN010018R1001	CE5-01W2 Auxiliary Contact Block	CE5-01W2	1	piece
1SBN010018R1010	CE5-10W2 Auxiliary Contact Block	CE5-10W2	1	piece
1SBN010013R1010	CB5-10 Impulse Contact Block	CB5-10	1	piece
1SBN010013R1001	CB5-01 Impulse Contact Block	CB5-01	1	piece
1SBN010110R1010	CA4-10 Auxiliary Contact Block	CA4-10	1	piece
1SBN010110T1010	CA4-10-T Auxiliary Contact Block	CA4-10-T	1	piece
1SBN010110R1001	CA4-01 Auxiliary Contact Block	CA4-01	1	piece
1SBN010110T1001	CA4-01-T Auxiliary Contact Block	CA4-01-T	1	piece
1SBN010111R1010	CC4-10 Leading Auxiliary Contact Block	CC4-10	1	piece
1SBN010111R1001	CC4-01 Lagging Auxiliary Contact Block	CC4-01	1	piece
1SBN010120R1011	CAL4-11 Auxiliary Contact Block	CAL4-11	1	piece
1SBN010120T1011	CAL4-11-T Auxiliary Contact Block	CAL4-11-T	1	piece
1SBN010140R1022	CA4-22E Auxiliary Contact Block	CA4-22E	1	piece
1SBN010140R1031	CA4-31E Auxiliary Contact Block	CA4-31E	1	piece
1SBN010140R1040	CA4-40E Auxiliary Contact Block	CA4-40E	1	piece
1SBN010140R1004	CA4-04E Auxiliary Contact Block	CA4-04E	1	piece
1SBN010151R1011	CAT4-11E Auxiliary Contact / Coil Terminal Block	CAT4-11E	1	piece
1SBN070156T1000	LDC4 Additional Coil Terminal Block	LDC4	1	piece
1SBN020112R1000	TEF4-ON Frontal Electronic Timer	TEF4-ON	1	piece
1SBN020113R1000	TEF4S-ON Frontal Electronic Timer	TEF4S-ON	1	piece
1SBN010134R1011	CAL4-11K Auxiliary Contact Block	CAL4-11K	1	piece
1SBN020114R1000	TEF4-OFF Frontal Electronic Timer	TEF4-OFF	1	piece
1SBN020115R1000	TEF4S-OFF Frontal Electronic Timer	TEF4S-OFF	1	piece
1SBN033405T1000	VM96-4 Mechanical Interlock Unit	VM96-4	1	piece
1SBN110108T1000	BX4 Protective Cover	BX4	1	piece

1SBN040100R1011	WA4-11 24-60V50/60HZ- DC Mechanical Latching Unit	WA4-11	1	piece
1SBN083413R2000	BEY65-4 Connection Set for Star-Delta Starter	BEY65-4	1	piece
1SBN040100R1014	WA4-14 250- 500V50/60HZ-DC Mechanical Latching Unit	WA4-14	1	piece
1SBN110122T1000	BDT4 Test Block	BDT4	1	piece
1SBN083411R1000	BER65-4 Connection Set for Reversing Contactors	BER65-4	1	piece
1SBN040100R1012	WA4-12 48-130V50/60HZ- DC Mechanical Latching Unit	WA4-12	1	piece
1SBN060100R1000	RA4 Interface Relay	RA4	1	piece
1SBN040100R1013	WA4-13 100-250V50/60HZWA4-13 -DC Mechanical Latching Unit		1	piece
1SBN070159T1000	LDC4K Additional Coil Terminal Block	LDC4K	1	piece
1SBN083406R1000	BEA65-4 Connecting Link with Manual Motor Starter	BEA65-4	1	piece
1SBN010160R1001	CA4-01K Auxiliary Contact Block	CA4-01K	1	piece
1SBN010146R1022	CA4-22EK Auxiliary Contact Block	CA4-22EK	1	piece
1SBN010160R1010	CA4-10K Auxiliary Contact Block	CA4-10K	1	piece
1SBN010160T1001	CA4-01K-T Auxiliary Contact Block	CA4-01K-T	1	piece
1SBN010160T1010	CA4-10K-T Auxiliary Contact Block	CA4-10K-T	1	piece
1SBN010146R1031	CA4-31EK Auxiliary Contact Block	CA4-31EK	1	piece
1SBN010146R1040	CA4-40EK Auxiliary Contact Block	CA4-40EK	1	piece

Categorias

Produtos > Produtos e Sistemas de Baixa Tensão > Produtos para controle > Contatores > Contatores > AF Contactors > AF52



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