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PRODUCT-DETAILS

AF26Z-40-00-20 AF26Z-40-00-20 12-20VDC Contactor



General Information	
Extended Product Type	AF26Z-40-00-20
Product ID	1SBL236201R2000
EAN	3471523116009
Catalog Description	AF26Z-40-00-20 12-20VDC Contactor
Long Description	The AF26Z-40-00-20 is a 4 pole - 690 V IEC or 600 UL contactor with screw terminals, controlling motors up to 11 kW / 400 V AC (AC-3) and switching power circuits up to 45 A (AC-1) or 45 A UL general use. Thanks to the AF technology, the contactor has a wide control voltage range (12-20 V 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.

Ordering

Minimum Order Quantity 1 piec

Popular Downloads

Data Sheet, Technical 1SBC100214C0202

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AF26Z-40-00-20	
Information	
Instructions and Manuals	1SBC101027M6801
Instructions and Manuals (Part 2)	1SAC200017M0002
CAD Dimensional Drawing	2CDC001079B0201
Dimensions	
Product Net Width	45 mm
Product Net Depth / Length	101 mm
Product Net Height	86 mm
Product Net Weight	0.4 kg
Technical	
Number of Main Contacts NO	4
Number of Main Contacts NC	0
Number of Auxiliary Contacts NO	0
Number of Auxiliary Contacts NC	0

Standards 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, CAN/CSA C22.2 No.60947-1, CAN/CSA C22.2 No.60947-4-1

Rated Operational Voltage Main Circuit 690 V Rated Frequency (f) Main Circuit 50 / 60 Hz Conventional Free-air Thermal Current (l_{th}) Rated Operational Current A C-1 (l_{e}) (690 V) 40 °C 45 A C-1 (l_{e})

(690 V) 70 °C 32 A

Rated Operational Current
(415 V) 60 °C 21.2 A

AC-3 (I_e)
(500 V) 60 °C 17.6 A
(690 V) 60 °C 10.5 A

(380 / 400 V) 60 °C 22 A
(220 / 230 / 240 V) 60 °C 23.2 A

Rated Operational Current
(110 V) 2 Poles in Series, 60 °C 40 A

DC-1 (I_e)

(110 V) 2 Poles in Series, 60 °C 40 A

(110 V) 2 Poles in Series, 70 °C 32 A

(110 V) 3 Poles in Series, 40 °C 45 A

(110 V) 3 Poles in Series, 60 °C 40 A

(110 V) 3 Poles in Series, 60 °C 40 A

(110 V) 4 Poles in Series, 40 °C 45 A

(110 V) 4 Poles in Series, 60 °C 40 A

(110 V) 4 Poles in Series, 60 °C 40 A

(110 V) 4 Poles in Series, 70 °C 32 A

(220 V) 3 Poles in Series, 40 °C 45 A (220 V) 3 Poles in Series, 60 °C 40 A (220 V) 3 Poles in Series, 70 °C 32 A (220 V) 4 Poles in Series, 40 °C 45 A (220 V) 4 Poles in Series, 60 °C 40 A (220 V) 4 Poles in Series, 70 °C 32 A (72 V) 1-Pole, 40 °C 45 A (72 V) 1-Pole, 60 °C 40 A (72 V) 2 Poles in Series, 40 °C 45 A (72 V) 2 Poles in Series, 40 °C 45 A (72 V) 2 Poles in Series, 60 °C 40 A (72 V) 2 Poles in Series, 60 °C 40 A

(72 V) 3 Poles in Series, 70 °C 32 A (72 V) 3 Poles in Series, 40 °C 45 A (72 V) 3 Poles in Series, 40 °C 45 A (72 V) 3 Poles in Series, 60 °C 40 A (72 V) 3 Poles in Series, 70 °C 32 A

(72 V) 4 Poles in Series, 40 °C 45 A (72 V) 4 Poles in Series, 60 °C 40 A (72 V) 4 Poles in Series, 70 °C 32 A

Number of Poles

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Ambient Temp, in Free Air, from a Cold State 10 s 300 A Ambient Temp, in Free Air, from a Cold State 15 min 55 A Ambient Temp, in Free Air, from a Cold State 1 min 150 A C Ambient Temp, in Free Air, from a Cold State 1 s 450 A C Ambient Temp, in Free Air, from a Cold State 1 s 450 A C Ambient Temp, in Free Air, from a Cold State 30 s 225 A acc. to IEC 60947-4-1 690 V acc. to UL/CSA 600 V 6 kV (AC-1) 600 cycles per hour DC Operation 12 20 V at Rated Operating Conditions AC-1 per Pole 1.6 W
acc. to UL/CSA 600 V 6 kV (AC-1) 600 cycles per hour 3600 cycles per hour DC Operation 12 20 V at Rated Operating Conditions AC-1 per Pole 1.6 W
(AC-1) 600 cycles per hour 3600 cycles per hour DC Operation 12 20 V at Rated Operating Conditions AC-1 per Pole 1.6 W
3600 cycles per hour DC Operation 12 20 V at Rated Operating Conditions AC-1 per Pole 1.6 W
DC Operation 12 20 V at Rated Operating Conditions AC-1 per Pole 1.6 W
at Rated Operating Conditions AC-1 per Pole 1.6 W
at Rated Operating Conditions AC-3 per Pole 0.42 W
Coil De-energization and NC Contact Closing 13 98 ms oil De-energization and NO Contact Opening 11 95 ms in Coil Energization and NC Contact Opening 38 90 ms en Coil Energization and NO Contact Closing 40 95 ms
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
2 x M4 screws placed diagonally
Flexible with Ferrule 1/2x 1.5 16 mm² Flexible with Insulated Ferrule 1/2x 1.5 16 mm² Rigid Solid 1/2x 1.5 4 mm² Rigid Stranded 1/2x 1.5 16 mm²
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
Control Circuit 10 mm Main Circuit 12 mm
D IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP20
Control Circuit 1.2 N·m Main Circuit 2.5 N·m
Screw Terminals
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Tightening Torque UL/CSA

Ambient Air Temperature

Close to Contactor for Storage -60 ... +80 °C

Near Contactor for Operation in Free Air -40 ... 70 °C

Control Circuit 11 in·lb Main Circuit 22 in·lb AF26Z-40-00-20 4/7

Climatic Withstand	Category B according to IEC 60947-1 Annex Q	
Maximum Operating Altitude Permissible	Without Derating 3000 m	
Resistance to Shock acc. to 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	
Resistance to Vibrations	4g Closed Position & 2g Open position 5 300 Hz	
Pollution Degree	3	

Material Compliance	
Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2021-006202
RoHS Information	2CMT2021-006277
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	2CMT2023-006525
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

ABB EcoSolutions	
End Of Life Disassembling Instructions	1SBC101080M6801
Environmental Product Declaration - EPD	1SBD250584E4000
Sustainable Material Content in Packaging (wt. %)	Recycled Cardboard - 86 %
Sustainable Material Content in Product (wt. %)	Recycled Metal - 28 %

Certificates and Declarations	
A2L Certificate - UL	9AKK108469A4875 9AKK108469A4879
ABS Certificate	ABS_20-2060694-PDA
BV Certificate	BV 2634H24898C0
CB Certificate	SE-113783
CCC Certificate	CCC_2010010304445623
CQC Certificate	CQC2010010304445623 CQC2020010304294316
Declaration of Conformity - CCC	2020980304001254 2020980304001052
Declaration of Conformity - CE	1SBD250001U1000
Declaration of Conformity - UKCA	1SBD250032U1000
DNV Certificate	DNV_TAE00001AF-4
GOST Certificate	GOST_POCCFR.ME77.B07175.pdf
KC Certificate	KC_HW02016-15002C
LR Certificate	LRS_LR23403517TA-02
RINA Certificate	RINA_ELE142224XG
RMRS Certificate	RMRS_1802705280
UL Certificate	UL-US-L319322-13-72119002-5 UL-CA-L319322-43-72119002-6
UL Listing Card	UL E319322

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Container Information	
Package Level 1 Units	box 1 piece
Package Level 1 Width	87 mm
Package Level 1 Depth / Length	103 mm
Package Level 1 Height	47 mm
Package Level 1 Gross Weight	0.4 kg
Package Level 1 EAN	3471523116009
Package Level 2 Units	box 18 piece
Package Level 2 Width	250 mm
Package Level 2 Depth / Length	300 mm
Package Level 2 Height	315 mm
Package Level 2 Gross Weight	14.4 kg
Package Level 3 Units	864 piece

External Classifications and Standards	
Object Classification Code	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
IDEA Granular Category Code (IGCC)	4758 >> lec Contactors
E-Number (Finland)	3705832

Accessories				_
ldentifier	Description	Туре	Quantity	Unit Of Measure
1SBN112303T1000	BP38-4 Mounting Piece	BP38-4	1	piece
1SBN113403T1000	BP65-4 Mounting Piece	BP65-4	1	piece
1SBN113903T1000	BP96-4 Mounting Piece	BP96-4	1	piece
1SBN110108T1000	BX4 Protective Cover	BX4	1	piece
1SBN110109W1000	BX4-CA Protective Cover	BX4-CA	1	piece
1SBN010110R1001	CA4-01 Auxiliary Contact Block	CA4-01	1	piece
1SBN010160R1001	CA4-01K Auxiliary Contact Block	CA4-01K	1	piece
1SBN010110T1001	CA4-01-T Auxiliary Contact Block	CA4-01-T	1	piece
1SBN010140R1004	CA4-04E Auxiliary Contact Block	CA4-04E	1	piece
1SBN010110R1010	CA4-10 Auxiliary Contact Block	CA4-10	1	piece
1SBN010160R1010	CA4-10K Auxiliary Contact Block	CA4-10K	1	piece
1SBN010110T1010	CA4-10-T Auxiliary Contact Block	CA4-10-T	1	piece
1SBN010140R1022	CA4-22E Auxiliary Contact Block	CA4-22E	1	piece
1SBN010146R1022	CA4-22EK Auxiliary Contact Block	CA4-22EK	1	piece
1SBN010140R1031	CA4-31E Auxiliary Contact Block	CA4-31E	1	piece
1SBN010146R1031	CA4-31EK Auxiliary Contact Block	CA4-31EK	1	piece
1SBN010140R1040	CA4-40E Auxiliary Contact Block	CA4-40E	1	piece
1SBN010146R1040	CA4-40EK Auxiliary Contact Block	CA4-40EK	1	piece
1SBN010120R1011	CAL4-11 Auxiliary Contact Block	CAL4-11	1	piece
1SBN010134R1011	CAL4-11K Auxiliary Contact Block	CAL4-11K	1	piece
1SBN010120T1011	CAL4-11-T Auxiliary Contact Block	CAL4-11-T	1	piece
1SBN010151R1011	CAT4-11E Auxiliary Contact / Coil Terminal Block	CAT4-11E	1	piece

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1SBN010111R1001	CC4-01 Lagging Auxiliary Contact Block	CC4-01	1	piece
1SBN010111R1010	CC4-10 Leading Auxiliary Contact Block	CC4-10	1	piece
1SBN010015R1001	CE5-01D0.1 Auxiliary Contact Block	CE5-01D0.1	1	piece
1SBN010017R1001	CE5-01D2 Auxiliary Contact Block	CE5-01D2	1	piece
1SBN010016R1001	CE5-01W0.1 Auxiliary Contact Block	CE5-01W0.1	1	piece
1SBN010018R1001	CE5-01W2 Auxiliary Contact Block	CE5-01W2	1	piece
1SBN010015R1010	CE5-10D0.1 Auxiliary Contact Block	CE5-10D0.1	1	piece
1SBN010017R1010	CE5-10D2 Auxiliary Contact Block	CE5-10D2	1	piece
1SBN010016R1010	CE5-10W0.1 Auxiliary Contact Block	CE5-10W0.1	1	piece
1SBN010018R1010	CE5-10W2 Auxiliary Contact Block	CE5-10W2	1	piece
1SBN073452R2000	LK96-4F Terminals for Control Lead Connections	LK96-4F	1	piece
1SBN070156T1000	LDC4 Additional Coil Terminal Block	LDC4	1	piece
1SBN070159T1000	LDC4K Additional Coil Terminal Block	LDC4K	1	piece
1SBN071305R1000	LF16-4 Connecting Strip	LF16-4	1	piece
1SBN071306R1000	LG16-4 Connecting Strip	LG16-4	1	piece
1SBN123402R1000	LT52-40 Terminal Shroud	LT52-40	1	piece
1SBN123902R1000	LT80-40 Terminal Shroud	LT80-40	1	piece
1SBN071303T1000	LY16-4 Connecting Strip	LY16-4	1	piece
1SBN060100R1000	RA4 Interface Relay	RA4	1	piece
1SBN020114R1000	TEF4-OFF Frontal Electronic Timer	TEF4-OFF	1	piece
1SBN020112R1000	TEF4-ON Frontal Electronic Timer	TEF4-ON	1	piece
1SBN020115R1000	TEF4S-OFF Frontal Electronic Timer	TEF4S-OFF	1	piece
1SBN020113R1000	TEF4S-ON Frontal Electronic Timer	TEF4S-ON	1	piece
1SBN040100R1010	WA4-10 24VDC Mechanical Latching Unit	WA4-10	1	piece
1SBN040100R1011	WA4-11 24-60V50/60HZ-DC Mechanical Latching Unit	WA4-11	1	piece
1SBN040100R1012	WA4-12 48-130V50/60HZ-DC Mechanical Latching Unit	WA4-12	1	piece
1SBN040100R1013	WA4-13 100-250V50/60HZ-DC Mechanical Latching Unit	WA4-13	1	piece
1SBN040100R1014	WA4-14 250-500V50/60HZ-DC Mechanical Latching Unit	WA4-14	1	piece
1SBN040200R1011	WA4-96-11 24-60V50/60HZ-DC Mechanical Latching Unit	WA4-96-11	1	piece
1SBN040200R1012	WA4-96-12 48-130V50/60HZ-DC Mechanical Latching Unit	WA4-96-12	1	piece
1SBN040200R1013	WA4-96-13 100-250V50/60HZ-DC Mechanical Latching Unit	WA4-96-13	1	piece
1SBN040200R1014	WA4-96-14 250-500V50/60HZ-DC Mechanical Latching Unit	WA4-96-14	1	piece

Categories

 $Low\ Voltage\ Products\ and\ Systems \rightarrow Control\ Products \rightarrow Contactors \rightarrow Block\ Contactors \rightarrow AF\ Contactors \rightarrow AF26$

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