



 PRODUCT-DETAILS

AFC80-30-00-88

AFC80-30-00-88 230-240V50Hz 240-260V60Hz Contactor



General Information

Extended Product Type:	AFC80-30-00-88
Product ID:	1SBL391001R8800
EAN:	3471523019386
Catalog Description:	AFC80-30-00-88 230-240V50Hz 240-260V60Hz Contactor
Long Description:	The AFC80-30-00-88 is a 3-pole - 1000 V IEC or 600 V UL contactor with Screw terminals, mainly controlling power circuits up to 125 A (IEC AC-1) or 105 A UL general use. Within the AF platform, AFC contactors offer an optimized operating time for AC controlled applications with electromagnetic coil (control voltage : 230 ... 240 V AC 50 Hz / 240 ... 260 V AC 60 Hz). AFC contactors have a block type design and can be easily extended with add-on auxiliary contact blocks and a wide range of additional accessories.
Display Name:	AFC80-30-00-88

Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900

Popular Downloads

Data Sheet, Technical Information:	1SBC100219C0201
Instructions and Manuals:	1SBC101036M6801
Instructions and Manuals (Part 2):	1SAC200017M0002

Dimensions

Product Net Width:	70 mm
Product Net Depth / Length:	116 mm
Product Net Height:	125.5 mm
Product Net Weight:	1.21 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
Number of Poles:	3P
Standards:	IEC/EN 60947-1, IEC/EN 60947-4-1, UL 60947-4-1, CSA C22.2 No. 60947-4-1, UL 60335-2-40 LZGH2 A2L
Rated Operational Voltage:	Main Circuit 1000 V
Conventional Free-air Thermal Current (I _{th}):	acc. to IEC 60947-4-1, Open Contactors $\Theta = 40\text{ °C}$ 130 A
Rated Operational Current AC-1 (I _e):	(690 V) 40 °C 125 A (690 V) 60 °C 100 A (690 V) 70 °C 85 A
Rated Operational Current AC-3 (I _e):	(415 V) 60 °C 80 A (440 V) 60 °C 80 A (500 V) 60 °C 65 A (690 V) 60 °C 49 A (1000 V) 60 °C 25 A (380 / 400 V) 60 °C 80 A (220 / 230 / 240 V) 60 °C 80 A
Rated Operational Current AC-3e (I _e):	(415 V) 60 °C 80 A (440 V) 60 °C 80 A (500 V) 60 °C 65 A (690 V) 60 °C 49 A (380 / 400 V) 60 °C 80 A (220 / 230 / 240 V) 60 °C 80 A
Rated Operational Power AC-3 (P _e):	(415 V) 45 kW (440 V) 45 kW (500 V) 45 kW (690 V) 45 kW (1000 V) 35 kW (380 / 400 V) 37 kW (220 / 230 / 240 V) 22 kW

Rated Operational Power AC-3e (P_e):	(415 V) 45 kW (440 V) 45 kW (500 V) 45 kW (690 V) 45 kW (380 / 400 V) 37 kW (220 / 230 / 240 V) 22 kW
Rated Operational Power AC-6b (P_e):	(400 / 415 V) 40 °C, 50 / 60 Hz 48 kvar (400 / 415 V) 70 °C, 50 / 60 Hz 41 kvar (400 / 415 V) 55 °C, 50 / 60 Hz 48 kvar (440 V) 40 °C, 50 / 60 Hz 52.7 kvar (440 V) 55 °C, 50 / 60 Hz 52.7 kvar (440 V) 70 °C, 50 / 60 Hz 45 kvar (500 / 550 V), 40 °C, 50 / 60 Hz 60 kvar (500 / 550 V) 55 °C, 50 / 60 Hz 60 kvar (500 / 550 V) 70 °C, 50 / 60 Hz 51 kvar (690 V) 40 °C, 50 / 60 Hz 80 kvar (690 V) 55 °C, 50 / 60 Hz 80 kvar (690 V) 70 °C, 50 / 60 Hz 70 kvar
Rated Short-time Withstand Current Low Voltage (I_{cw}):	at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 140 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 300 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1200 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 450 A
Maximum Breaking Capacity:	cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 440 V 1150 A cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 690 V 750 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}):	Auxiliary Circuit 8 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 230 ... 240 V 60 Hz 240 ... 260 V
Coil Consumption:	Average Holding Value 50 / 60 Hz 20 V·A Average Pull-in Value 50 Hz 236 V·A Average Pull-in Value 60 Hz 260 V·A
Power Loss:	at Rated Operating Conditions AC-1 per Pole 7.6 W at Rated Operating Conditions AC-3 per Pole 3 W
Operate Time:	Between Coil De-energization and NC Contact Closing 7 ... 21 ms Between Coil De-energization and NO Contact Opening 5 ... 16 ms Between Coil Energization and NC Contact Opening 3 ... 17 ms Between Coil Energization and NO Contact Closing 7 ... 22 ms
Mounting on DIN Rail:	TH35-15 (35 x 15 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 6 ... 50 mm ² Flexible with Insulated Ferrule 1/2x 6 ... 50 mm ² Rigid 1x 6 ... 70 mm ² Rigid 2x 6 ... 50 mm ² Rigid 1x 6 ... 70 mm ² Rigid 2x 6 ... 50 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 Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm ² Rigid 1/2x 1 ... 2.5 mm ²
Wire Stripping Length:	Control Circuit 10 mm Main Circuit 17 mm

Degree of Protection: 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 IP10

Recommended Screw Driver: Pozidriv PZ

Tightening Torque: Control Circuit 1.2 N·m
Main Circuit 6 N·m

Terminal Type: Screw Terminals

Product Name: Block Contactor

Technical UL/CSA

NEMA Size: 3

Continuous Current Rating NEMA: 90 A

Horsepower Rating NEMA: (200 V AC) Three Phase 25 Hp
(230 V AC) Three Phase 30 Hp
(460 V AC) Three Phase 50 Hp
(575 V AC) Three Phase 50 Hp

Maximum Operating Voltage UL/CSA: Main Circuit 600 V

General Use Rating UL/CSA: (600 V AC) 105 A

Horsepower Rating UL/CSA: (120 V AC) Single Phase 7-1/2 hp
(200 ... 208 V AC) Three Phase 25 hp
(220 ... 240 V AC) Three Phase 30 hp
(240 V AC) Single Phase 15 hp
(440 ... 480 V AC) Three Phase 60 hp
(550 ... 600 V AC) Three Phase 75 hp

Tightening Torque UL/CSA: Control Circuit 11 in·lb
Main Circuit 53 in·lb

Full Load Amps Motor Use: (120 V AC) Single Phase 80 A
(200 ... 208 V AC) Three Phase 78.2 A
(220 ... 240 V AC) Three Phase 80 A
(240 V AC) Single Phase 68 A
(440 ... 480 V AC) Three Phase 77 A
(550 ... 600 V AC) Three Phase 77 A

Environmental

Ambient Air Temperature: 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

Maximum Operating Altitude Permissible: Without Derating 3000 m

Resistance to Shock acc. to 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

Pollution Degree: 3

Material Compliance

Conflict Minerals Reporting Template (CMRT): 9AKK108467A5658

REACH Declaration:	2CMT2021-006202
RoHS Declaration:	2CMT2021-006277
RoHS Information:	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)

Certificates and Declarations

A2L Certificate – UL:	9AKK108469A4888 9AKK108469A4889
BV Certificate:	BV_2634H36994B2
CB Certificate:	CB_SE-113159
CCS Certificate:	GZ23PTB00147
Declaration of Conformity - CE:	1SBD250024U1000
Declaration of Conformity - UKCA:	1SBD250045U1000
DNV Certificate:	9AKK108470A6934
KC Certificate:	9AKK108471A9559
RINA Certificate:	9AKK108470A5006
UL Certificate:	UL-US-2206508-0 UL-CA-2206439-0

Container Information

Package Level 1 Units:	box 1 piece
Package Level 1 Width:	146.5 mm
Package Level 1 Depth / Length:	96.5 mm
Package Level 1 Height:	146.5 mm
Package Level 1 Gross Weight:	1.33 kg
Package Level 1 EAN:	3471523019386

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):	4755 >> Contactors

Accessories

Identifier	Description	Type	Qty	Unit Of Measure
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
1SBN010120R1011	CAL4-11 Auxiliary Contact Block	CAL4-11	1	piece
1SBN010120T1011	CAL4-11-T Auxiliary Contact Block	CAL4-11-T	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
1SBN010134R1011	CAL4-11K Auxiliary Contact Block	CAL4-11K	1	piece
1SBN033405T1000	VM96-4 Mechanical Interlock Unit	VM96-4	1	piece
1SBN110108T1000	BX4 Protective Cover	BX4	1	piece
1SBN110122T1000	BDT4 Test Block	BDT4	1	piece
1SBN083911R1000	BER96-4 Connection Set for Reversing Contactors	BER96-4	1	piece
1SBN083913R2000	BEY96-4 Connection Set for Star-Delta Starter	BEY96-4	1	piece
1SBN070159T1000	LDC4K Additional Coil Terminal Block	LDC4K	1	piece
1SBN010160R1001	CA4-01K Auxiliary Contact Block	CA4-01K	1	piece
1SBN010160R1010	CA4-10K Auxiliary Contact Block	CA4-10K	1	piece
1SBN050410R1000	RV4-1/50 Surge Suppressor	RV4-1/50	1	piece
1SBN010160T1001	CA4-01K-T Auxiliary Contact Block	CA4-01K-T	1	piece
1SBN050410R1002	RV4-1/260 Surge Suppressor	RV4-1/260	1	piece
1SBN010160T1010	CA4-10K-T Auxiliary Contact Block	CA4-10K-T	1	piece
1SBN050410R1001	RV4-1/130 Surge Suppressor	RV4-1/130	1	piece

Categories

Products > Low Voltage Products and Systems > Control Products > Contactors > Block Contactors > AF Contactors > AF80

