



PRODUCT-DETAILS

AF65-30-00-11

AF65-30-00-11 24-60V50/60HZ 20-60VDC

Contacteur

General Information

Extended Product Type	AF65-30-00-11
Product ID	1SBL387001R1100
EAN	3471523132610
Catalog Description	AF65-30-00-11 24-60V50/60HZ 20-60VDC Contacteur

Long Description

The AF65-30-00-11 is a 3 pole - 690 V IEC or 600 UL contacteur with screw terminals, controlling motors up to 30 kW / 400 V AC (AC-3) or 50 hp / 480 V UL and switching power circuits up to 105 A (AC-1) or 90 A UL general use. Thanks to the AF technology, the contacteur has a wide control voltage range (24-60 V 50/60 Hz and 20-60 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 contacteurs 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 piece
Customs Tariff Number	85364900

Popular Downloads

Instructions and Manuals	1SBC101036M6801
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CAD Dimensional
Drawing

2CDC001079B0201

Dimensions

Product Net Width	55 mm
Product Net Depth / Length	111 mm
Product Net Height	125.5 mm
Product Net Weight	0.97 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
Rated Operational Voltage	Main Circuit 690 V
Rated Frequency (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 105 A (690 V) 60 °C 90 A (690 V) 70 °C 80 A
Rated Operational Current AC-3 (I_e)	(415 V) 60 °C 65 A (440 V) 60 °C 65 A (500 V) 60 °C 55 A (690 V) 60 °C 39 A (380 / 400 V) 60 °C 65 A (220 / 230 / 240 V) 60 °C 65 A
Rated Operational Current AC-3e (I_e)	(415 V) 60 °C 65 A (440 V) 60 °C 65 A (500 V) 60 °C 55 A (690 V) 60 °C 39 A (380 / 400 V) 60 °C 65 A (220 / 230 / 240 V) 60 °C 65 A
Rated Operational Power AC-3 (P_e)	(400 V) 30 kW (415 V) 37 kW (440 V) 37 kW (500 V) 37 kW (690 V) 37 kW (380 / 400 V) 30 kW (220 / 230 / 240 V) 18.5 kW
Rated Operational Power AC-3e (P_e)	(415 V) 37 kW (440 V) 37 kW (500 V) 37 kW (690 V) 37 kW (380 / 400 V) 30 kW (220 / 230 / 240 V) 18.5 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
Maximum Electrical Switching Frequency	(AC-1) 600 cycles per hour (AC-2 / AC-4) 150 cycles per hour (AC-3) 1200 cycles per hour
Rated Operational Current DC-1 (I _e)	(110 V) 2 Poles in Series, 40 °C 105 A (110 V) 2 Poles in Series, 60 °C 90 A (110 V) 2 Poles in Series, 70 °C 80 A (110 V) 3 Poles in Series, 40 °C 105 A (110 V) 3 Poles in Series, 60 °C 90 A (110 V) 3 Poles in Series, 70 °C 80 A (220 V) 3 Poles in Series, 40 °C 105 A (220 V) 3 Poles in Series, 60 °C 90 A (220 V) 3 Poles in Series, 70 °C 80 A (72 V) 1-Pole, 40 °C 105 A (72 V) 1-Pole, 60 °C 90 A (72 V) 1-Pole, 70 °C 80 A (72 V) 2 Poles in Series, 40 °C 105 A (72 V) 2 Poles in Series, 60 °C 90 A (72 V) 2 Poles in Series, 70 °C 80 A (72 V) 3 Poles in Series, 40 °C 105 A (72 V) 3 Poles in Series, 60 °C 90 A (72 V) 3 Poles in Series, 70 °C 80 A
Rated Operational Current DC-3 (I _e)	(110 V) 2 Poles in Series, 40 °C 105 A (110 V) 2 Poles in Series, 60 °C 90 A (110 V) 2 Poles in Series, 70 °C 80 A (110 V) 3 Poles in Series, 40 °C 105 A (110 V) 3 Poles in Series, 60 °C 90 A (110 V) 3 Poles in Series, 70 °C 80 A (220 V) 3 Poles in Series, 40 °C 105 A (220 V) 3 Poles in Series, 60 °C 90 A (220 V) 3 Poles in Series, 70 °C 80 A (72 V) 1-Pole, 40 °C 105 A (72 V) 1-Pole, 60 °C 90 A (72 V) 1-Pole, 70 °C 80 A (72 V) 2 Poles in Series, 40 °C 105 A (72 V) 2 Poles in Series, 60 °C 90 A (72 V) 2 Poles in Series, 70 °C 80 A (72 V) 3 Poles in Series, 40 °C 105 A (72 V) 3 Poles in Series, 60 °C 90 A (72 V) 3 Poles in Series, 70 °C 80 A
Rated Operational Current DC-5 (I _e)	(110 V) 2 Poles in Series, 40 °C 105 A (110 V) 2 Poles in Series, 60 °C 90 A (110 V) 2 Poles in Series, 70 °C 80 A (110 V) 3 Poles in Series, 40 °C 105 A (110 V) 3 Poles in Series, 60 °C 90 A (110 V) 3 Poles in Series, 70 °C 80 A (220 V) 3 Poles in Series, 40 °C 105 A (220 V) 3 Poles in Series, 60 °C 90 A (220 V) 3 Poles in Series, 70 °C 80 A (72 V) 1-Pole, 40 °C 105 A (72 V) 1-Pole, 60 °C 90 A (72 V) 1-Pole, 70 °C 80 A (72 V) 2 Poles in Series, 40 °C 105 A (72 V) 2 Poles in Series, 60 °C 90 A (72 V) 2 Poles in Series, 70 °C 80 A (72 V) 3 Poles in Series, 40 °C 105 A (72 V) 3 Poles in Series, 60 °C 90 A (72 V) 3 Poles in Series, 70 °C 80 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 Mechanical	3600 cycles per hour

Switching Frequency

Rated Control Circuit Voltage (U_c)	50 Hz 24 ... 60 V
	60 Hz 24 ... 60 V
	DC Operation 20 ... 60 V

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

Mounting on DIN Rail

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

Main Circuit 16 mm

Degree of Protection

acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20
 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP10

Terminal Type

Screw Terminals

Technical UL/CSA

General Use Rating UL/CSA

(600 V AC) 90 A

Horsepower Rating UL/CSA

(120 V AC) Single Phase	5 hp
(200 ... 208 V AC) Three Phase	20 hp
(220 ... 240 V AC) Three Phase	25 hp
(240 V AC) Single Phase	15 hp
(440 ... 480 V AC) Three Phase	50 hp
(550 ... 600 V AC) Three Phase	60 hp

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

Environmental

Ambient Air Temperature

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

Maximum Operating Altitude Permissible

Without Derating 3000 m

Resistance to Vibrations acc. to IEC 60068-2-6

5 ... 300 Hz 3 g closed position / 3 g open position

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

RoHS Status

Following EU Directive 2011/65/EU

Certificates and Declarations (Document Number)

ABS Certificate	ABS_20-2060694-PDA
BV Certificate	BV_2634H36994A
CB Certificate	CB_SE-108889A1
CCC Certificate	CCC_2012010304589737 CCC_2015010304824714
CQC Certificate	CQC2015010304824714 CQC2012010304589737
Declaration of Conformity - CCC	2020980304001256 2020980304001074
Declaration of Conformity - CE	1SBD250000U1000
Declaration of Conformity - UKCA	1SBD250031U1000
EAC Certificate	EAC_RU_FRME77B03447
Environmental Information	1SBD250168E1000 1SBC100222M0201
GL Certificate	DNV-GL_TAE00001AF-3
Instructions and Manuals	1SBC101036M6801
KC Certificate	KC_HW02016-15003C
LR Certificate	LRS_1300087E1
REACH Declaration	2CMT2021-006202
RINA Certificate	RINA_ELE084013XG
RMRS Certificate	RMRS_1802705280
RoHS Information	2CMT2021-006277
UL Certificate	UL_20130301_E312527_14_1
UL Listing Card	UL_E312527

Container Information

Package Level 1 Units	box 1 piece
Package Level 1 Width	150 mm
Package Level 1 Depth / Length	150 mm
Package Level 1 Height	97 mm
Package Level 1 Gross Weight	1.07 kg
Package Level 1 EAN	3471523132610
Package Level 2 Units	box 10 piece
Package Level 2 Width	250 mm
Package Level 2 Depth / Length	300 mm
Package Level 2 Height	300 mm
Package Level 2 Gross Weight	10.7 kg

Package Level 3 Units

240 piece

Classifications

Object Classification Code	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
IDEA Granular Category Code (IGCC)	4758 >> Iec Contactors
E-Number (Finland)	3707046
E-Number (Sweden)	3210042

Categories

Low Voltage Products and Systems → Control Products → Contactors → Block Contactors