

PRODUCT-DETAILS

# AF185-30-11-70

## AF185-30-11 100-250V 50/60Hz / 100-250V DC

### Contacteur



#### General Information

Extended Product Type	AF185-30-11-70
Product ID	1SFL497001R7011
EAN	7320500220238
Catalog Description	AF185-30-11 100-250V 50/60Hz / 100-250V DC Contacteur
Long Description	A 3-phase Contacteur suitable for various applications such as Motor starting, Isolation, Bypass and Distribution application up to max 1000 V. Operated with wide control voltage range 100-250 V, AC/DC

#### Classifications

Object Classification Code	Q
ETIM 4	EC000066 - Magnet contacteur, AC-switching
ETIM 5	EC000066 - Magnet contacteur, AC-switching
ETIM 6	EC000066 - Power contacteur, AC switching
ETIM 7	EC000066 - Power contacteur, AC switching
UNSPSC	39121529
IDEA Granular Category Code (IGCC)	4755 >> Contacteurs
E-Number (Norway)	4115271
E-Number (Sweden)	3228296

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**Container Information**


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Package Level 1 Units	box 1 piece
Package Level 1 Width	178 mm
Package Level 1 Depth / Length	232 mm
Package Level 1 Height	167 mm
Package Level 1 Gross Weight	3.5 kg
Package Level 1 EAN	7320500220238

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**Certificates and Declarations (Document Number)**


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ABS Certificate	15-LD1408622-PDA
BV Certificate	BV_13409-C0BV
CB Certificate	SEMKO_SE-69479
CCC Certificate	CQC_2007010304256685
CCS Certificate	GB14T00030
cUL Certificate	20160920-E36588
Declaration of Conformity - CE	2CMT2015-005436
DNV GL Certificate	TAE00001W1
EAC Certificate	9AKK107046A8618
Environmental Information	1SFC101007D0201
GL Certificate	GL_20261-04HH
Instructions and Manuals	1SFC380003-89
LOVAG Certificate	SE-0115106
LR Certificate	16-20064
RINA Certificate	ELE060313XG_002
RMRS Certificate	RMRS_12-03683-315
RoHS Information	2CMT2015-005436

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**Technical UL/CSA**


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Maximum Operating Voltage UL/CSA	Main Circuit 600 V
General Use Rating UL/CSA	(600 V AC) 250 A
Horsepower Rating UL/CSA	(200 V AC) Three Phase 50 hp (208 V AC) Three Phase 50 hp (220 ... 240 V AC) Three Phase 60 hp (440 ... 480 V AC) Three Phase 125 hp (550 ... 600 V AC) Three Phase 150 hp

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**Environmental**


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Ambient Air Temperature	Close to Contactor for Storage -40 ... +70 °C 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
Maximum Operating	3000 m

## Altitude Permissible

Resistance to Shock acc.  
to IEC 60068-2-27Shock Direction: A 5 K40  
Shock Direction: B1 5 K40  
Shock Direction: B2 5 K40  
Shock Direction: C1 5 K40  
Shock Direction: C2 5 K40

## RoHS Status

Following EU Directive 2011/65/EU

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**Technical**


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Number of Main Contacts NO	3
Number of Main Contacts NC	0
Number of Auxiliary Contacts NO	1
Number of Auxiliary Contacts NC	1
Rated Operational Voltage	Main Circuit 690 V
Rated Frequency (f)	Main Circuit 50/60 Hz
Conventional Free-air Thermal Current ( $I_{th}$ )	acc. to IEC 60947-4-1, Open Contactors $q = 40\text{ °C}$ 275 A
Rated Operational Current AC-1 ( $I_e$ )	(1000 V) 40 °C 200 A (1000 V) 55 °C 200 A (1000 V) 70 °C 180 A (690 V) 40 °C 275 A (690 V) 55 °C 250 A (690 V) 70 °C 180 A
Rated Operational Current AC-3 ( $I_e$ )	(1000 V) 55 °C 95 A (220 / 230 / 240 V) 55 °C 185 A (380 / 400 V) 55 °C 185 A (415 V) 55 °C 185 A (440 V) 55 °C 185 A (500 V) 55 °C 170 A (690 V) 55 °C 170 A
Rated Operational Power AC-3 ( $P_e$ )	(1000 V) 132 KWT (220 / 230 / 240 V) 55 KWT (380 / 400 V) 90 KWT (415 V) 90 KWT (440 V) 90 KWT (500 V) 110 KWT (690 V) 132 KWT
Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1	8 x $I_e$ AC-3
Rated Making Capacity AC-3 acc. to IEC 60947-4-1	10 x $I_e$ AC-3
Short-Circuit Protective Devices	gG Type Fuses 355 A
Rated Short-time Withstand Current ( $I_{cw}$ )	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 320 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 800 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 2000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 1000 A
Maximum Breaking Capacity	$\cos \phi = 0.45$ ( $\cos \phi = 0.35$ for $I_e > 100$ A) at 440 V 2000 A $\cos \phi = 0.45$ ( $\cos \phi = 0.35$ for $I_e > 100$ A) at 690 V 1600 A
Maximum Electrical Switching Frequency	AC-1 300 cycles per hour AC-2 / AC-4 150 cycles per hour AC-3 300 cycles per hour

Rated Operational Current DC-1 ( $I_e$ )	(110 V) 2 Poles in Series, 40 °C 275 A (220 V) 3 Poles in Series, 40 °C 275 A
Rated Operational Current DC-3 ( $I_e$ )	(110 V) 2 Poles in Series, 40 °C 275 A (220 V) 3 Poles in Series, 40 °C 275 A
Rated Operational Current DC-5 ( $I_e$ )	(110 V) 2 Poles in Series, 40 °C 275 A (220 V) 3 Poles in Series, 40 °C 275 A
Rated Insulation Voltage ( $U_i$ )	acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V
Rated Impulse Withstand Voltage ( $U_{imp}$ )	Main Circuit 8 kV
Mechanical Durability	5 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 2 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 430 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 430 V·A Pull-in at Max. Rated Control Circuit Voltage DC 500 W
Operate Time	Between Coil De-energization and NC Contact Closing 40 ... 50 ms Between Coil De-energization and NO Contact Opening 43 ... 53 ms Between Coil Energization and NC Contact Opening 45 ... 85 ms Between Coil Energization and NO Contact Closing 50 ... 90 ms
Connecting Capacity Main Circuit	Bar 24 mm Rigid Al-Cable 25 ... 150 m <sup>2</sup> Rigid Cu-Cable 6 ... 185 m <sup>2</sup>
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 2x 0.75 ... 2.5 Flexible with Insulated Ferrule 2x 0.75 ... 2.5 Flexible 2x0.75 ... 2.5 m <sup>2</sup> Solid 2 x 1 ... 4 m <sup>2</sup> Stranded 1 x 1 ... 4 m <sup>2</sup>
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 IP00
Terminal Type	Main Circuit: Bars

## Dimensions

Product Net Width	111.5 mm
Product Net Depth / Length	160 mm
Product Net Height	196 mm
Product Net Weight	2.9 kg

## Popular Downloads

Data Sheet, Technical Information	1SBC100192C0206
Instructions and Manuals	1SFC380003-89
Dimension Diagram	53540923-7

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## Ordering

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Minimum Order Quantity	1 piece
Customs Tariff Number	85364900
Replacement Product ID (NEW)	1SFL487002R1311

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## Categories

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

