A185-30-11-27

A185-30-11 110V 50Hz / 115V 60Hz Contactor

General Information

Extended Product Type	A185-30-11-27
Product ID	1SFL491001R2711
EAN	7320500209394
Catalog Description	A185-30-11 110V 50Hz / 115V 60Hz Contactor
Long Description	A 3-phase Contactor suitable for various applications such as Motor starting, Isolation, By-pass and Distribution application up to max 1000 V.Operated with control voltage, versions from 24….690 AC, 50 and 60 Hz

Ordering

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

Popular Downloads

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

Dimensions

Product Net Width	111.5 mm
Product Net Depth / Length	160.0 mm
Product Net Height	196.0 mm
Product Net Weight	3.500 kg

Technical

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 °C 275 A

Rated Operational Current AC-1 (I_e)	(690 V) 55 °C 250 A (690 V) 40 °C 275 A (1000 V) 40 °C 200 A (1000 V) 55 °C 200 A (690 V) 70 °C 180 A (1000 V) 70 °C 180 A
Rated Operational Current AC-3 (I_e)	(1000 V) 55 °C 95 A (690 V) 55 °C 170 A (415 V) 55 °C 185 A (220 / 230 / 240 V) 55 °C 185 A (440 V) 55 °C 185 A (380 / 400 V) 55 °C 185 A (500 V) 55 °C 170 A
Rated Operational Power AC-3 (P_e)	(500 V) 110 kW (690 V) 132 kW (220 / 230 / 240 V) 55 kW (380 / 400 V) 90 kW (440 V) 90 kW (415 V) 90 kW
Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1	8 x Ie AC-3
Rated Making Capacity AC-3 acc. to IEC 60947-4-1	10 x Ie 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 30 s 1000 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 10 s 1500 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 1 min 800 A
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 440 V 2000 A cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 690 V 1600 A
Maximum Electrical Switching Frequency	AC-3 300 cycles per hour AC-1 300 cycles per hour AC-2 / AC-4 150 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	3600 cycles per hour
Coil Operating Limits	(acc. to IEC 60947-4-1) 0.85 x Uc Min. ... 1.1 x Uc Max. (at θ ≤ 70 °C) °C
Rated Control Circuit Voltage (U_c)	60 Hz 115 V 50 Hz 110 V
Coil Consumption	Pull-in at Max. Rated Control Circuit Voltage 60 Hz 600 V·A Holding at Max. Rated Control Circuit Voltage 50 Hz 35 V·A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 550 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 40 V·A
Operate Time	Between Coil Energization and NO Contact Closing 13 ... 27 ms Between Coil De-energization and NO Contact Opening 9 ... 13 ms Between Coil De-energization and NC Contact Closing 5 ... 10 ms Between Coil Energization and NC Contact Opening 8 ... 22 ms
Connecting Capacity Main Circuit	Rigid Al-Cable 25 ... 150 mm² Bar 24 mm Rigid Cu-Cable 6 ... 185 mm²
Connecting Capacity Auxiliary Circuit	Solid 2 x 1 ... 4 mm² Flexible with Insulated Ferrule 2 x 0.75 ... 2.5 mm² Stranded 2 x 1 .... 4 mm² Flexible 2x0.75 ... 2.5 mm² Flexible with Ferrule 2 x 0.75 ... 2.5 mm²
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
Connecting terminals (delivered in open position) Main poles	Flat type c/w screws and bolts
Terminal Type	Main Circuit: Bars

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Environmental

Ambient Air Temperature	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 Close to Contactor for Storage -40 ... +70 °C
Maximum Operating Altitude Permissible	3000 m
Resistance to Shock acc. to IEC 60068-2-27	Shock Direction: A 5 g Shock Direction: C2 5 g Shock Direction: C1 5 g Shock Direction: B2 5 g Shock Direction: B1 5 g
RoHS Status	Following EU Directive 2011/65/EU

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Technical UL/CSA

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

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Certificates and Declarations (Document Number)

BV Certificate	09826/C0 BV
CB Certificate	SE-69489
CCC Certificate	CQC_2007010304256685
CSA Certificate	314004
Declaration of Conformity - CE	2CMT2015-005436
DNV Certificate	DNV_E-12191
Environmental Information	1SFC101002D0201
GL Certificate	GL_15529-00HH
Instructions and Manuals	1SFC380003-89
LOVAG Certificate	SE9837127
LR Certificate	LR_12-70003
RINA Certificate	ELE060313XG/001
RMRS Certificate	RMRS_12-03683-315
RoHS Information	2CMT2016-006744

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Container Information

Package Level 1 Units	box 1 piece
Package Level 1 Width	170 mm
Package Level 1 Depth / Length	180 mm
Package Level 1 Height	245 mm
Package Level 1 Gross Weight	3.5 kg
Package Level 1 EAN	7320500209394

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
UNSPSC	39121529

Categories

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