



PRODUCT-DETAILS

A185-30-11-88

A185-30-11 230-240V 50Hz / 240-260V 60Hz Contactor



General Information

Extended Product Type:	A185-30-11-88
Product ID:	1SFL491001R8811
EAN:	7320500209714
Catalog Description:	A185-30-11 230-240V 50Hz / 240-260V 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
Display Name:	A185-30-11-88

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

Dimensions

Product Net Width:	111.5 mm
Product Net Depth / Length:	160 mm
Product Net Height:	196 mm
Product Net Weight:	2.9 kg
Dimension Diagram:	53540923-7.PDF

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
Number of Poles:	3P
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 $\Theta = 40\text{ °C}$ 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):	(415 V) 55 °C 185 A (440 V) 55 °C 185 A (500 V) 55 °C 170 A (690 V) 55 °C 170 A (1000 V) 55 °C 95 A (380 / 400 V) 55 °C 185 A (220 / 230 / 240 V) 55 °C 185
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 Operational Power AC-3 (P_e):	(415 V) 90 kW (440 V) 90 kW (500 V) 110 kW (690 V) 132 kW (380 / 400 V) 90 kW (220 / 230 / 240 V) 55 kW
Rated Breaking Capacity AC-3:	8 x I_e AC-3
Rated Making Capacity AC-3:	10 x I_e AC-3

Short-Circuit Protective Devices:	gG Type Fuses 355 A
Rated Short-time Withstand Current Low Voltage (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
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}):	Main Circuit 8 kV
Maximum Electrical Switching Frequency:	(AC-1) 300 cycles per hour (AC-2 / AC-4) 150 cycles per hour (AC-3) 300 cycles per hour
Mechanical Durability:	5 million
Maximum Mechanical Switching Frequency:	3600 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 230 ... 240 V 60 Hz 240 ... 260 V
Coil Consumption:	Holding at Max. Rated Control Circuit Voltage 50 Hz 35 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 40 V·A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 550 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 600 V·A
Power Loss:	at Rated Operating Conditions per Pole 8 W
Operate Time:	Between Coil De-energization and NC Contact Closing 5 ... 10 ms Between Coil De-energization and NO Contact Opening 9 ... 13 ms Between Coil Energization and NC Contact Opening 8 ... 22 ms Between Coil Energization and NO Contact Closing 13 ... 27 ms
Connecting Capacity Main Circuit:	Bar 24 mm ² Rigid Al-Cable 25 ... 150 mm ² Rigid Cu-Cable 6 ... 185 mm ²
Connecting Capacity Auxiliary Circuit:	Flexible with Ferrule 2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 2.5 mm ² Flexible 2x0.75 ... 2.5 mm ² Solid 2 x 1 ... 4 mm ² Stranded 2 x 1 ... 4 mm ²
Connecting Capacity:	Bar 24 mm ² Rigid Al-Cable 25 ... 150 mm ² Rigid Cu-Cable 6 ... 185 mm ²
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
Tightening Torque:	Main Circuit 18 N·m
Terminal Type:	Main Circuit: Bars
Product Name:	Block Contactor

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:	(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
Full Load Amps Motor Use:	(440 ... 480 V AC) Three Phase 156 A (550 ... 600 V AC) Three Phase 144 A

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
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Maximum Operating Altitude Permissible: Without Derating 3000 m

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

Conflict Minerals Reporting Template (CMRT):	9AKK108467A5658
REACH Declaration:	2CMT2021-006202
RoHS Declaration:	2CMT2021-006277
RoHS Information:	Following EU Directive 2011/65/EU
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

BV Certificate:	09826/C0 BV
CB Certificate:	SE-69489
CQC Certificate:	CQC2002010304011010 CQC2009010304353525
CSA Certificate:	314004
Declaration of Conformity - CCC:	2020980304001633 2020980304001040
Declaration of Conformity - CE:	2CMT2015-005436
Declaration of Conformity - UKCA:	2CMT2020-006118
DNV Certificate:	DNV_E-12191
GL Certificate:	GL_15529-00HH
LOVAG Certificate:	SE9837127
LR Certificate:	LR_12-70003
RINA Certificate:	ELE060313XG/001

RMRS Certificate: RMRS_12-03683-315

Container Information

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:	7320500209714

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
E-Number (Norway):	4115137
E-Number (Sweden):	3227865

Categories

Products > Low Voltage Products and Systems > Control Products > Contactors > Block Contactors > A Contactors

