

PRODUCT-DETAILS

A185-30-11-88 A185-30-11 230-240V 50Hz / 240-260V 60Hz Contactor



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 24690 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	1SEC380003-89

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Dimension Diagram	53540923-7

Dimensions	
Product Net Width	111.5 mm
Product Net Depth / Length	160 mm
Product Net Height	196 mm
Product Net Weight	2.9 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 Θ = 40 °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 170 A (380 / 400 V) 55 °C 185 A (220 / 230 / 240 V) 55 °C 185
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 le AC-3
Rated Making Capacity AC-3	10 x le 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 le > 100 A) at 440 V 2000 A cos phi=0.45 (cos phi=0.35 for le > 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

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Rated Operational Current (110 V) 2 Poles in Series, 40 °C 275 A DC-3 (I_e) (220 V) 3 Poles in Series, 40 °C 275 A Bated Operational Current (110 V) 2 Poles in Series, 40 °C 275 A DC-5 (I_e) (220 V) 3 Poles in Series, 40 °C 275 A Rated Insulation Voltage acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V (I) acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V Rated Insulation Voltage Main Circuit 8 KV Voltage (U _{imp}) Main Circuit 8 KV Mechanical Durability 5 million Maximum Mechanical 3600 cycles per hour Switching Frequency 0 Holding at Max. Rated Control Circuit Voltage 50 Hz 250240 VC) Coil Operating Limits (acc. to IEC 60947-4-1) 0.85 x Uc Min 1.1 x Uc Max. (at 0 ≤ 70 °C) Rated Control Circuit Voltage 50 Hz 250240 VC) 60 Hz 240260 V Coil Consumption Holding at Max. Rated Control Circuit Voltage 50 Hz 250 VA Pull-in at Max. Rated Control Circuit Voltage 50 Hz 250 VA Pull-in at Max. Rated Control Circuit Voltage 50 Hz 260 VA Operate Time Between Coil De-energization and NC Contact Opening 9 13 ms Between Coil De-energization and NC Contact Opening 9 13 ms Between Coil De-energization and NC Contact Opening 9 25 mm ² Rigid AL-Cable 25 16 mm ² Rigid AL-Cable 25 16 mm ² Stranded 2 x 1 4 mm ³ Stranded 2 x		
DC-5 (l_p) (220 V) 3 Poles in Series, 40 °C 275 A Rated Insulation Voltage acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V Rated Insulation Voltage (U _{inp}) Main Circuit 8 kV Mechanical Durability Smillion Maximum Mechanical 3600 cycles per hour 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 0 ≤ 70 °C) Rated Control Circuit 50 Hz 230 240 V Voltage (U _c) 60 Hz 240 260 V Coil Consumption Holding at Max. Rated Control Circuit Voltage 50 Hz 35 VA Holding at Max. Rated Control Circuit Voltage 50 Hz 550 VA Pull-in at Max. Rated Control Circuit Voltage 50 Hz 550 VA Operate Time Between Coil De-energization and NC Contact Closing 5 10 ms Between Coil De-energization and NC Contact Closing 5 25 mm² Sidi Cu-2able 5 150 mm² Connecting Capacity Main Between Coil Energization and NC Contact Closing 9 13 ms Between Coil Energization and NC Contact Closing 9 13 ms Stranded 2 x 1 4 mm² Solid 2 x 1 4 mm² Sidi 2 x 1 4 mm² Connecting Capacity Main Connecting Capacity A 24 mm² Connecting Capacity A 24 mm² Stranded 2 x 1 4 mm² <td></td> <td></td>		
(U1) acc. to UL/CSA 600 V Rated Impulse Withstand Main Circuit 8 kV Voltage (U _{imp}) Smillion Maximum Mechanical 3600 cycles per hour 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 $\theta \leq 70$ °C) Rated Control Circuit 50 Hz 230 240 V Voltage (U_c) 50 Hz 230 240 V Coil Consumption Holding at Max. Rated Control Circuit Voltage 50 Hz 35 VA Holding at Max. Rated Control Circuit Voltage 50 Hz 250 VA Pull-in at Max. Rated Control Circuit Voltage 50 Hz 550 VA Pull-in at Max. Rated Control Circuit Voltage 50 Hz 500 VA Pull-in at Max. Rated Control Circuit Voltage 50 Hz 500 VA Operate Time Between Coil De-energization and NC Contact Opening 9 13 ms Between Coil De-energization and NC Contact Closing 5 10 ms Between Coil De-energization and NC Contact Closing 13 27 ms Connecting Capacity Main Bar 24 mm² Circuit Rigid AL-Cable 5 150 mm² Rigid Cu-Cable 6 185 mm² Standed 2 S 1 5 mm² Solid 2 x 1 4 mm² Standed 2 x 1 4 mm² Solid 2 x 1 4 mm² Standed 2 x 1 4 mm² Solid 2 x 1 4 mm² Standed 2 x		
Voltage (U _{imp}) 5 million Mechanical Durability 5 million Maximum Mechanical 3600 cycles per hour Switching Frequency 11 x Uc Max. (at $\theta \le 70$ °C) Coil Operating Limits (acc. to IEC 60947-4-1) 0.85 x Uc Min 1.1 x Uc Max. (at $\theta \le 70$ °C) Rated Control Circuit 50 Hz 230 240 V Voltage (U _c) 60 Hz 240 260 V Coil Consumption Holding at Max. Rated Control Circuit Voltage 50 Hz 35 V-A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 250 V-A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 40 V-A Operate Time Between Coil De-energization and NC Contact Closing 5 10 ms Between Coil De-energization and NC Contact Opening 9 13 ms Between Coil De-energization and NC Contact Opening 9 22 ms Connecting Capacity Main Bar 24 mm² Rigid Al-Cable 25 150 mm² Connecting Capacity Main Flexible with Insulated Ferrule 2x 0.75 25 mm² Solid 2x 1 4 mm² Connecting Capacity Main Flexible with Insulated Ferrule 2x 0.75 25 mm² Solid 2x 1 4 mm² Connecting Capacity Flexible with Insulated Ferrule 2x 0.75 25 mm² Solid 2x 1 4 mm² Connecting Capacity Flexible with Insulated Ferrule 2x 0.75 25 mm		
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Switching Frequency Coll operating Limits Coil Operating Limits (acc. to IEC 60947-4-1) 0.85 x Uc Min 1.1 x Uc Max. (at $\theta \le 70$ °C) Rated Control Circuit 50 Hz 230 240 V Voltage (U _c) 60 Hz 240 260 V Coil Consumption Holding at Max. Rated Control Circuit Voltage 50 Hz 550 VA Pull-in at Max. Rated Control Circuit Voltage 60 Hz 600 VA Operate Time Between Coil De-energization and NC Contact Opening 9 13 ms Between Coil De-energization and NC Contact Closing 5 10 ms Between Coil Energization and NC Contact Opening 9 13 ms Connecting Capacity Main Batween Coil Energization and NC Contact Closing 13 27 ms Connecting Capacity Main Batween Coil Energization and NC Contact Closing 13 27 ms Connecting Capacity Main Bat 24 mm² Circuit Flexible with Ferrule 2x 0.75 2.5 mm² Rigid Cu-Cable 6 185 mm² Solid 2 x 1 4 mm² Solid 2 x 1 4 mm² Stranded 2 x 1 4 mm² Degree of Protection acc. to IEC 60529, IEC 60947-1, EN 60529 Guil Terminals IP20 Connecting Terminals Flat type c/w screws and bolts (delivered in open position) Main Poles	Mechanical Durability	5 million
Rated Control Circuit 50 Hz 230 240 V Voltage (U _c) 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 60 Hz 600 V-A Operate Time Between Coil De-energization and NC Contact Closing 5 10 ms Between Coil De-energization and NC Contact Opening 8 22 ms Between Coil Energization and NC Contact Opening 8 22 ms Connecting Capacity Main Bar 24 mm² Circuit Rigid Al-Cable 25 150 mm² Connecting Capacity Main Bar 24 mm² Connecting Capacity Main Bar 24 mm² Connecting Capacity Flexible with Ferrule 2x 0.75 2.5 mm² Auxiliary Circuit Flexible with Insulated Ferrule 2x 0.75 2.5 mm² Solid 2 x 1 4 mm² Stranded 2 x 1 4 mm² Stranded 2 x 1 4 mm² Stranded 2 x 1 4 mm² Stranded 2 x 1 4 mm² Stranded 2 x 1 4 mm² Connecting Terminals (delivered in open position) Main Poles Flex type c/w screws and bolts		3600 cycles per hour
Voltage (U _c) 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 60 Hz 40 V-A Operate Time Between Coil De-energization and NC Contact Closing 5 10 ms Between Coil De-energization and NC Contact Opening 9 13 ms Between Coil De-energization and NC Contact Closing 5 10 ms Connecting Capacity Main Between Coil Energization and NC Contact Closing 13 22 ms Connecting Capacity Main Bar 24 mm² Connecting Capacity Flexible with Ferrule 2x 0.75 2.5 mm² Auxiliary Circuit Flexible with Insulated Ferrule 2x 0.75 2.5 mm² Solid 2 x 1 4 mm² Stranded 2 x 1 4 mm² Stranded 2 x 1 4 mm² Stranded 2 x 1 4 mm² Connecting Terminals Flexible with Insulated Ferrule 2X 0.75 2.5 mm² Stranded 2 x 1 4 mm² Stranded 2 x 1 4 mm² Stranded 2 x 1 4 mm² Str	Coil Operating Limits	(acc. to IEC 60947-4-1) 0.85 x Uc Min 1.1 x Uc Max. (at $\theta \le 70$ °C)
Holding at Max. Rated Control Circuit Voltage 60 Hz 40 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 50 V/A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 600 V·A Operate Time Between Coil De-energization and NC Contact Closing 5 10 ms Between Coil De-energization and NC Contact Opening 9 13 ms Between Coil Energization and NC Contact Opening 9 13 ms Between Coil Energization and NC Contact Closing 13 27 ms Connecting Capacity Main Bar 24 mm² Circuit Rigid Al-Cable 25 150 mm² Rigid Cu-Cable 6 185 mm² Connecting Capacity Flexible with Ferrule 2x 0.75 2.5 mm² Auxiliary Circuit Flexible with Insulated Ferrule 2x 0.75 2.5 mm² Solid 2 x 1 4 mm² Stranded 2 x 1 4 mm² Degree of Protection acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 Connecting Terminals Flat type c/w screws and bolts (delivered in open position) Main Poles Flat type c/w screws and bolts		
Between Coil De-energization and NO Contact Opening 9 13 ms Between Coil Energization and NC Contact Opening 8 22 ms Connecting Capacity Main Circuit Rigid Al-Cable 25 150 mm² Rigid Cu-Cable 6 185 mm² Connecting Capacity Auxiliary Circuit Flexible with Ferrule 2x 0.75 2.5 mm² Solid 2 x 1 4 mm² Solid 2 x 1 4 mm² Stranded 2 x 1 4 mm² Connecting Terminals (delivered in open position) Main Poles	Coil Consumption	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
Circuit Rigid Al-Cable 25 150 mm² Rigid Cu-Cable 6 185 mm² Connecting Capacity Flexible with Ferrule 2x 0.75 2.5 mm² Auxiliary Circuit Flexible with Insulated Ferrule 2x 0.75 2.5 mm² Flexible 2x 0.75 2.5 mm² Solid 2 x 1 4 mm² Stranded 2 x 1 4 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 IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP00 Connecting Terminals (delivered in open position) Main Poles	Operate Time	Between Coil De-energization and NO Contact Opening 9 13 ms Between Coil Energization and NC Contact Opening 8 22 ms
Auxiliary Circuit 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 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		Rigid Al-Cable 25 150 mm ²
acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP00 Connecting Terminals (delivered in open position) Main Poles		Flexible with Insulated Ferrule 2x 0.75 2.5 mm² Flexible 2x0.75 2.5 mm² Solid 2 x 1 4 mm²
(delivered in open position) Main Poles	Degree of Protection	
Terminal Type Main Circuit: Bars	(delivered in open	Flat type c/w screws and bolts
	Terminal Type	Main Circuit: Bars

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

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	Without Derating 3000 n

2CMT2021-006202

Shock Direction: A 5 g Shock Direction: B1 5 g Shock Direction: B2 5 g Shock Direction: C1 5 g

REACH Declaration

Resistance to Shock acc. to IEC 60068-2-27

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	Shock Direction: C2 5 g
RoHS Information	2CMT2021-006277
RoHS Status	Following EU Directive 2011/65/EU

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

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)	4755 >> Contactors
E-Number (Norway)	4115137
E-Number (Sweden)	3227865

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Categories

 $\text{Low Voltage Products and Systems} \rightarrow \text{Control Products} \rightarrow \text{Contactors} \rightarrow \text{Block Contactors} \rightarrow \text{A Contactors}$

