

PRODUCT-DETAILS

A185-30-11-86 A185-30-11 400-415V 50Hz / 415-440V 60Hz Contactor "No longer for sale" replaced by



General Information	
Extended Product Type	A185-30-11-86
Product ID	1SFL491001R8611
EAN	7320500209691
Catalog Description	A185-30-11 400-415V 50Hz / 415-440V 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)	1SFL487002R1411
Popular Downloads	
Data Sheet, Technical Information	1SBC100192C0206

Dimension Diagram 53540923-7

Product Net Depth / 196 mm Product Net Height 196 mm Product Net Height 196 mm Product Net Height 196 mm Product Net Weight 2.9 kg Technical Number of Main Contacts NO Number of Main Contacts NO Number of Main Contacts NO Number of Auxiliary Contacts NO Namber of Auxiliary Namber of Namber	Dimensions	
Length Product Net Height 196 mm 2.9 kg 197 mode 198 mm 198 m	Product Net Width	111.5 mm
Product Net Weight	Product Net Depth / Length	160 mm
Number of Main Contacts NC	Product Net Height	196 mm
Number of Main Contacts NO Number of Main Contacts NC Number of Main Contacts NC Number of Auxiliary Contacts NO Number of Auxiliary Contacts NO Number of Auxiliary Contacts NO Rated Operational Voltage Rated Frequency (f) Rated Operational Current (In) Rated Operational Power (In) Rated Operatio	Product Net Weight	2.9 kg
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NC Number of Auxiliary Contracts NO Number of Auxiliary Contracts NO Number of Auxiliary Contracts NC Rated Operational Voltage Rated Prequency (f) Main Circuit 690 \ Rated Frequency (f) Main Circuit 50 / 60 Hz Conventional Free-air Thermal Current (I _{III}) Rated Operational Current (1000 \(\) \\(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(Number of Main Contacts NO	3
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Contacts NC	Number of Auxiliary Contacts NO	1
Rated Frequency (f) Conventional Free-air Thermal Current (l _{th}) Rated Operational Current AC-1 (l _e) Rated Operational Current (1000 V) 40 °C 200 / (1000 V) 55 °C 200 / (1000 V) 70 °C 180 / (699 V) 55 °C 200 / (1000 V) 55 °C 180 / (699 V) 70 °C 180 / (1000 V) 55 °C 180 / (1000 V)	Number of Auxiliary Contacts NC	1
Conventional Free-air Thermal Current (Im)	Rated Operational Voltage	Main Circuit 690 V
Thermal Current (I _{th}) Rated Operational Current AC-1 (I _e) (1000 V) 40 °C 200 AC-1 (100 V) 50 °C 200 AC-1 (100 V) 70 °C 180 AC-1 (I _e) (1000 V) 70 °C 180 AC-1 (I _e) (1000 V) 70 °C 180 AC-1 (I _e) (1000 V) 70 °C 180 AC-1 (I _e) (1000 V) 70 °C 180 AC-1 (I _e) Rated Operational Current (411 V) 55 °C 185 AC-3 (I _e) (1000 V) 55 °C 170 AC-1 (I _e) (1000 V) 55 °C 185 AC-3 (I _e) (1000 V) 55 °C 185 AC-	Rated Frequency (f)	Main Circuit 50 / 60 Hz
AC-1 (I _e) (1000 V) 70 °C 180 / (690 V) 40 °C 275 / (690 V) 50 °C 280 / (690 V) 70 °C 180 / (690 V) 55 °C 185 / (1000 V) 55 °C 185 / (1000 V) 55 °C 185 / (200 / 230 / 240 V) 55 °C 185 / (220 / 230 V 120 V) 55 °C 185 / (220 / 230 V 120 V) 55 °C 185 / (220 / 230 V 120 V) 55 °C 185 / (220 / 230 V 120 V) 55 °C 185 / (220 / 230 V 120 V) 55 °C 185 / (220 / 230 V 120 V) 55 °C 185 / (220 / 230 V 120 V) 55 °C 185 / (220 / 230 V 1	Conventional Free-air Thermal Current (I _{th})	acc. to IEC 60947-4-1, Open Contactors Θ = 40 °C 275 A
AC-3 (I _e) (440 V) 55 °C 185 / (500 V) 55 °C 170 / (690 V) 55 °C 170 / (690 V) 55 °C 170 / (1000 V) 55 °C 170 / (1000 V) 55 °C 170 / (1000 V) 55 °C 185 / (380 / 400 V) 55 °C 185 / (320 / 230 / 240 V) 55 °C 185 / (320 / 230 / 240 V) 55 °C 185 / (320 / 230 / 240 V) 55 °C 185 / (320 / 200 V) 110 kW (500 V) 110 kW (690 V) 132 kW (500 V) 110 kW (690 V) 132 kW (320 / 400 V) 96 kW (220 / 230 / 240 V) 55 kW (220 / 230 / 240 V) 50 kW (22	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
AC-3 (Pe) (440 V) 90 kW (500 V) 110 kW (699 V) 110 kW (890 V) 105 kW (380 / 400 V) 90 kW (220 / 230 / 240 V) 55 kW Rated Breaking Capacity AC-3 Rated Making Capacity AC-3 Short-Circuit Protective Devices Short-Circuit Protective Devices gG Type Fuses 355 A Rated Short-time 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 s 2000 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 s 2000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 3 s 2000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 3 s 2000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 3 s 2000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 3 s 2000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 3 s 2000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 3 s 2000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 3 s 2000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 3 s 2000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 3 s 2000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 3 s 2000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 3 s 2000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 3 s 2000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 3 s 2000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 5 s 2000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 5 s 2000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 5 s 2000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 5 s 2000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 5 s 2000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 5 s 2000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 5 s 2000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 5 s 2000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 5 s 2000 A at 40	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
AC-3 Rated Making Capacity AC-3 Short-Circuit Protective Devices Rated Short-time Rated Short-time Withstand Current Low Voltage (I _{cw}) Acc. Maximum Breaking Capacity Maximum Electrical Switching Frequency Rated Operational Current (110 V) 2 Poles in Series, 40 °C 275 A 10 x le ACc. 26 Type Fuses 355 A 27 A Cc. 38 Type Fuses 355 A 28 Type Fuses 355 A 28 Type Fuses 355 A 29 Type Fuses 355 A 20 Type Fuses 355 A 21 Type Fuses 355 A 21 Type Fuses 355 A 21 Type Fuses 355 A 22 Type Fuses 355 A 23 Type Fuses 355 A 24 Type Fuses 355 A 25 Type Fuses 355 A 26 Type Fuses 355 A 26 Type Fuses 355 A 27 Type Fuses 355 A 28 Type Fuses 355 A 29 Type Fuses 355 A 20 Type Fuses 355 A 20 Type Fuses 355 A 21 Type Fuses 355 A 25 Type Fuses 355 A 26 Type Fuses 355 A 26 Type Fuses 355 A 27 Type Fuses 355 A 28 Type Fuses 355 A 29 Type Fuses 355 A 20 Type Fuses 355 A 20 Type Fuses 355 A 21 Type Fuses 10 Type Fuses in Series 35 A 21 Type Fuses 10 Type Fuses in Series 35 A 21 Type Fuses 10 Type Fuses in Series 35 A 22 Type Fuses 10 Type Fuses in Series 35 A 22 Type Fuses 10 Type Fuses in Series 35 A 23 Type Fuses 10 Type Fuses in Series 35 A 24 Type Fuses 10 Type Fuses in Series 40 °C 275 A 25 Type Fuses 10 Type Fuses in Series 40 °C 275 A 25 Type Fuses 10 Type Fuses in Series 35 Type Fuses In Series 40 °C 275 A 25 Type Fuses 10 Type Fuses In Series 40 °C 275 A 25 Type Fuses In Series 40 °C 275 A 26 Type Fuses In	Rated Operational Power AC-3 (P _e) Rated Breaking Capacity	(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
AC-3 Short-Circuit Protective Devices Rated Short-time 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 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 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 30 s 1000 A 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 hou (AC-3) 300 cycles per	AC-3	
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Withstand Current Low Voltage (I _{cw}) 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 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 30 s 1000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 1000 A 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 switching Frequency (AC-1) 300 cycles per hou (AC-2 / AC-4) 150 cycles per hou (AC-3) 300 cycles per hou Rated Operational Current (110 V) 2 Poles in Series, 40 °C 275 A	Devices	
Capacity cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 1600 A Maximum Electrical (AC-1) 300 cycles per hou Switching Frequency (AC-2 / AC-4) 150 cycles per hou (AC-3) 300 cycles per hou (AC-3) 300 cycles per hou Rated Operational Current (110 V) 2 Poles in Series, 40 °C 275 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
Switching Frequency (AC-2 / AC-4) 150 cýcles per hou (AC-3) 300 cycles per hou Rated Operational Current (110 V) 2 Poles in Series, 40 °C 275 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

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 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
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)
Rated Control Circuit Voltage (U _c)	50 Hz 400 415 V 60 Hz 415 440 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
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 mm² 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 Flexible with Insulated Ferrule 2x 0.75 2.5 mm² Flexible 2x0.75 2.5 mm² Solid 1 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 IP00
Connecting Terminals (delivered in open position) Main Poles	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 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

Material Compliance	
REACH Declaration	2CMT2021-006202
RoHS Information	2CMT2021-006277
RoHS Status	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	7320500209691

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)	4115138
E-Number (Sweden)	3227867

Categories

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

