PRODUCT-DETAILS

A185-30-11-80

A185-30-11 220-230V 50Hz / 230-240V 60Hz Contactor

"No longer for sale" replaced by

General Information

Extended Product Type	A185-30-11-80
Product ID	1SFL491001R8011
EAN	7320500203309
Catalog Description	A185-30-11 220-230V 50Hz / 230-240V 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	1SBC100192C0206

Information	
Instructions and Manuals	1SFC380003-89
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
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 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 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 Ie AC-3
Rated Making Capacity AC-3	10 x Ie 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 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
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 Uc Min. ... 1.1 x Uc Max. (at θ ≤ 70 °C)
Rated Control Circuit Voltage (U_c)	50 Hz 220 ... 230 V 60 Hz 230 ... 240 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 mm² Rigid Al-Cable 25 ... 150 mm² Rigid Cu-Cable 6 ... 185 mm²
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 1x 0.75 ... 2.5 mm² Flexible with Insulated Ferrule 2x 0.75 ... 2.5 mm² Flexible 1x0.75 ... 2.5 mm² Solid 2 x 1 ... 4 mm² Stranded 2 x 1 .... 4 mm²
Connecting Capacity	Bar 24 mm² Rigid Al-Cable 25 ... 150 mm² Rigid Cu-Cable 6 ... 185 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
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	(440 ... 480 V AC) Three Phase 156 A

Use	(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
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	SE-200690
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	7320500203309

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 (Finland)	3709328
E-Number (Norway)	4115136
E-Number (Sweden)	3227864

Categories

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