

## General Information

Extended Product Type:	A185-30-11 220-230V 50Hz / 230-240V 60Hz
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, Bypass and Distribution application up to max 1000 V. Operated with control voltage, versions from 24....690 AC, 50 and 60 Hz

## Categories

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

## Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900
Replacement Product ID (NEW):	<a href="#">1SFL487002R1311</a>

## Popular Downloads

Data Sheet, Technical Information:	<a href="#">1SBC100122C0202</a>
Instructions and Manuals:	<a href="#">1SFC380003-89</a>
Dimension Diagram:	<a href="#">&amp;#160;53540923-7</a>

## Dimensions

Product Net Width:	111.5 mm
Product Net Depth:	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 <sub>th</sub> ):	acc. to IEC 60947-4-1, Open Contactors q = 40 &#176;C 275 A
Rated Operational Current AC-1 (I <sub>e</sub> ):	(690 V) 55 &#176;C 250 A (690 V) 40 &#176;C 275 A (1000 V) 40 &#176;C 200 A (1000 V) 55 &#176;C 200 A (690 V) 70 &#176;C 180 A (1000 V) 70 &#176;C 180 A
Rated Operational Current AC-3 (I <sub>e</sub> ):	(1000 V) 55 &#176;C 95 A (690 V) 55 &#176;C 170 A (415 V) 55 &#176;C 185 A (220 / 230 / 240 V) 55 &#176;C 185 A (440 V) 55 &#176;C 185 A (380 / 400 V) 55 &#176;C 185 A (500 V) 55 &#176;C 170 A
Rated Operational Power AC-3 (P <sub>e</sub> ):	(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 I <sub>e</sub> AC-3
Rated Making Capacity AC-3 acc. to IEC 60947-4-1:	10 x I <sub>e</sub> AC-3
Short-Circuit Protective Devices:	gG Type Fuses 355 A
Rated Short-time Withstand Current (I <sub>cw</sub> ):	at 40 &#176;C Ambient Temp, in Free Air, from a Cold State 15 min 320 A at 40 &#176;C Ambient Temp, in Free Air, from a Cold State 10 s 1500 A at 40 &#176;C Ambient Temp, in Free Air, from a Cold State 30 s 1000 A at 40 &#176;C Ambient Temp, in Free Air, from a Cold State 1 s 2000 A at 40 &#176;C Ambient Temp, in Free Air, from a Cold State 1 min 800 A

<b>Maximum Breaking Capacity:</b>	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
<b>Maximum Electrical Switching Frequency:</b>	AC-3 300 cycles per hour AC-1 300 cycles per hour AC-2 / AC-4 150 cycles per hour
<b>Rated Operational Current DC-1 (I<sub>e</sub>):</b>	(110 V) 2 Poles in Series, 40 &#176;C 275 A (220 V) 3 Poles in Series, 40 &#176;C 275 A
<b>Rated Operational Current DC-3 (I<sub>e</sub>):</b>	(110 V) 2 Poles in Series, 40 &#176;C 275 A (220 V) 3 Poles in Series, 40 &#176;C 275 A
<b>Rated Operational Current DC-5 (I<sub>e</sub>):</b>	(110 V) 2 Poles in Series, 40 &#176;C 275 A (220 V) 3 Poles in Series, 40 &#176;C 275 A
<b>Rated Insulation Voltage (U<sub>i</sub>):</b>	acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V
<b>Rated Impulse Withstand Voltage (U<sub>imp</sub>):</b>	Main Circuit 8 kV
<b>Mechanical Durability:</b>	5 million
<b>Maximum Mechanical Switching Frequency:</b>	3600 cycles per hour
<b>Coil Operating Limits:</b>	(acc. to IEC 60947-4-1) 0.85 x U <sub>c</sub> Min. ... 1.1 x U <sub>c</sub> Max. (at $\theta \leq 70$ &#176;C) &#176;C
<b>Rated Control Circuit Voltage (U<sub>c</sub>):</b>	60 Hz 230 ... 240 V 50 Hz 220 ... 230 V
<b>Coil Consumption:</b>	Pull-in at Max. Rated Control Circuit Voltage 60 Hz 600 V&#183;A Holding at Max. Rated Control Circuit Voltage 50 Hz 35 V&#183;A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 550 V&#183;A Holding at Max. Rated Control Circuit Voltage 60 Hz 40 V&#183;A
<b>Operate Time:</b>	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
<b>Connecting Capacity Main Circuit:</b>	Rigid Al-Cable 25...150 mm&#178; Bar 24 mm Rigid Cu-Cable 6...185 mm&#178;
<b>Connecting Capacity Auxiliary Circuit:</b>	Solid 2x1...4 mm&#178; Flexible with Insulated Ferrule 2x0.75...2.5 mm&#178; Stranded 2x1...4 mm&#178; Flexible 1x0.75...2.5 mm&#178; Flexible with Ferrule 1x0.75...2.5 mm&#178;
<b>Degree of Protection:</b>	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP00
<b>Connecting terminals (delivered in open position) Main poles:</b>	Flat type c/w screws and bolts
<b>Terminal Type:</b>	Main Circuit: Bars

## Environmental

<b>Ambient Air Temperature:</b>	Close to Contactor Fitted with Thermal O/L Relay (0.85 ... 1.1 U <sub>c</sub> ) -25...+50 &#176;C Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 U <sub>c</sub> ) -40...+70 &#176;C Close to Contactor for Storage -40...+70 &#176;C
<b>Maximum Operating Altitude Permissible:</b>	3000 m
<b>Resistance to Shock acc. to IEC 60068-2-27:</b>	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
<b>RoHS Status:</b>	Following EU Directive 2002/95/EC August 18, 2005 and amendment

## Technical UL/CSA

<b>Maximum Operating Voltage UL/CSA:</b>	Main Circuit 600 V
<b>General Use Rating UL/CSA:</b>	(600 V AC) 250 A
<b>Horsepower Rating UL/CSA:</b>	(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

## Certificates and Declarations (Document Number)

<b>BV Certificate:</b>	<a href="#">09826/CO BV</a>
<b>CB Certificate:</b>	<a href="#">SE-69489</a>
<b>CCC Certificate:</b>	<a href="#">CQC_2007010304256685</a>
<b>CSA Certificate:</b>	<a href="#">314004</a>
<b>Declaration of Conformity - CE:</b>	<a href="#">1SFA1-45</a>

<b>DNV Certificate:</b>	DNV_E-12191
<b>GL Certificate:</b>	GL_15529-00HH
<b>LOVAG Certificate:</b>	SE-200690
<b>LR Certificate:</b>	LR_12-70003
<b>RINA Certificate:</b>	ELE060313XG/001
<b>RMRS Certificate:</b>	RMRS_12-03683-315
<b>RoHS Information:</b>	1SFC101046D0203

### Container Information

<b>Package Level 1 Units:</b>	1 piece
<b>Package Level 1 Width:</b>	170 mm
<b>Package Level 1 Length:</b>	180 mm
<b>Package Level 1 Height:</b>	245 mm
<b>Package Level 1 Gross Weight:</b>	3.5 kg
<b>Package Level 1 EAN:</b>	7320500203309

### Classifications

<b>Object Classification Code:</b>	Q
<b>E-number:</b>	3227864
<b>ETIM 4:</b>	EC000066 - Magnet contactor, AC-switching
<b>ETIM 5:</b>	EC000066 - Magnet contactor, AC-switching
<b>ETIM 6:</b>	EC000066 - Power contactor, AC switching
<b>UNSPSC:</b>	39121529

