



---

**PRODUCT-DETAILS**

# A185-30-22-29

## A185-30-22 120V 50Hz / 140V 60Hz Contactor



---

**General Information**

<b>Extended Product Type:</b>	A185-30-22-29
<b>Product ID:</b>	1SFL491001R2922
<b>EAN:</b>	7320500209882
<b>Catalog Description:</b>	A185-30-22 120V 50Hz / 140V 60Hz Contactor
<b>Long Description:</b>	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
<b>Display Name:</b>	A185-30-22-29

---

**Ordering**

<b>Minimum Order Quantity:</b>	1 piece
<b>Customs Tariff Number:</b>	85364900
<b>Replacement Product ID (NEW):</b>	1SFL487002R1322

---

**Popular Downloads**

<b>Data Sheet, Technical Information:</b>	1SBC100192C0206
<b>Instructions and Manuals:</b>	1SFC380003-89

## Dimensions

<b>Product Net Width:</b>	118 mm
<b>Product Net Depth / Length:</b>	160 mm
<b>Product Net Height:</b>	196 mm
<b>Product Net Weight:</b>	2.9 kg
<b>Dimension Diagram:</b>	53540923-7.PDF

## Technical

<b>Number of Main Contacts NO:</b>	3
<b>Number of Main Contacts NC:</b>	0
<b>Number of Auxiliary Contacts NO:</b>	2
<b>Number of Auxiliary Contacts NC:</b>	2
<b>Number of Poles:</b>	3P
<b>Rated Operational Voltage:</b>	Main Circuit 690 V
<b>Rated Frequency (f):</b>	Main Circuit 50 / 60 Hz
<b>Conventional Free-air Thermal Current (I<sub>th</sub>):</b>	acc. to IEC 60947-4-1, Open Contactors $\Theta = 40\text{ °C}$ 275 A
<b>Rated Operational Current AC-1 (I<sub>e</sub>):</b>	(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
<b>Rated Operational Current AC-3 (I<sub>e</sub>):</b>	(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
<b>Rated Operational Current DC-1 (I<sub>e</sub>):</b>	(110 V) 2 Poles in Series, 40 °C 275 A (220 V) 3 Poles in Series, 40 °C 275 A
<b>Rated Operational Current DC-3 (I<sub>e</sub>):</b>	(110 V) 2 Poles in Series, 40 °C 275 A (220 V) 3 Poles in Series, 40 °C 275 A
<b>Rated Operational Current DC-5 (I<sub>e</sub>):</b>	(110 V) 2 Poles in Series, 40 °C 275 A (220 V) 3 Poles in Series, 40 °C 275 A
<b>Rated Operational Power AC-3 (P<sub>e</sub>):</b>	(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
<b>Rated Breaking Capacity AC-3:</b>	8 x I <sub>e</sub> AC-3
<b>Rated Making Capacity AC-3:</b>	10 x I <sub>e</sub> AC-3
<b>Short-Circuit Protective Devices:</b>	gG Type Fuses 355 A

<b>Rated Short-time Withstand Current Low Voltage (<math>I_{cw}</math>):</b>	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
<b>Maximum Breaking Capacity:</b>	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
<b>Rated Insulation Voltage (<math>U_i</math>):</b>	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to UL/CSA 600 V
<b>Rated Impulse Withstand Voltage (<math>U_{imp}</math>):</b>	Main Circuit 8 kV
<b>Maximum Electrical Switching Frequency:</b>	(AC-1) 300 cycles per hour (AC-2 / AC-4) 150 cycles per hour (AC-3) 300 cycles per hour
<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 $U_c$ Min. ... 1.1 x $U_c$ Max. (at $\theta \leq 70$ °C)
<b>Rated Control Circuit Voltage (<math>U_c</math>):</b>	50 Hz 120 V 60 Hz 140 V
<b>Coil Consumption:</b>	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
<b>Power Loss:</b>	at Rated Operating Conditions per Pole 8 W
<b>Operate Time:</b>	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
<b>Connecting Capacity Main Circuit:</b>	Bar 24 mm <sup>2</sup> Rigid Al-Cable 25 ... 150 mm <sup>2</sup> Rigid Cu-Cable 6 ... 185 mm <sup>2</sup>
<b>Connecting Capacity Auxiliary Circuit:</b>	Flexible with Ferrule 2x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 0.75 ... 2.5 mm <sup>2</sup> Flexible 1x0.75 ... 2.5 mm <sup>2</sup> Solid 2 x 1 ... 4 mm <sup>2</sup> Stranded 2 x 1 ... 4 mm <sup>2</sup>
<b>Connecting Capacity:</b>	Bar 24 mm <sup>2</sup> Rigid Al-Cable 25 ... 150 mm <sup>2</sup> Rigid Cu-Cable 6 ... 185 mm <sup>2</sup>
<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>Tightening Torque:</b>	Main Circuit 18 N·m
<b>Terminal Type:</b>	Main Circuit: Bars
<b>Product Name:</b>	Block Contactor

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

---

## Environmental

---

<b>Ambient Air Temperature:</b>	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

<b>Resistance to Shock acc. to IEC 60068-2-27:</b>	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

---

<b>Conflict Minerals Reporting Template (CMRT):</b>	9AKK108467A5658
<b>REACH Declaration:</b>	2CMT2021-006202
<b>RoHS Declaration:</b>	2CMT2021-006277
<b>RoHS Information:</b>	Following EU Directive 2011/65/EU
<b>Toxic Substances Control Act - TSCA:</b>	2CMT2023-006525
<b>WEEE B2C / B2B:</b>	Business To Business
<b>WEEE Category:</b>	5. Small Equipment (No External Dimension More Than 50 cm)

---

## Certificates and Declarations

---

<b>BV Certificate:</b>	09826/C0 BV
<b>CB Certificate:</b>	SE-69489
<b>CQC Certificate:</b>	CQC2002010304011010 CQC2009010304353525
<b>CSA Certificate:</b>	314004
<b>Declaration of Conformity - CCC:</b>	2020980304001633 2020980304001040
<b>Declaration of Conformity - CE:</b>	2CMT2015-005436
<b>Declaration of Conformity - UKCA:</b>	2CMT2020-006118
<b>DNV Certificate:</b>	DNV_E-12191
<b>GL Certificate:</b>	GL_15529-00HH
<b>LOVAG Certificate:</b>	SE9837127
<b>LR Certificate:</b>	LR_12-70003
<b>RINA Certificate:</b>	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:	7320500209882

---

---

## 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

---

---

## Categories

---

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

