# A210-30-11 220-230V 50Hz / 230-240V 60Hz

Products Low Voltage Products and Systems Control Products Contactors Block Contactors

## General Information

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| **Extended Product Type:** | A210-30-11 220-230V 50Hz / 230-240V 60Hz |
| **Product ID:** | 1SFL511001R8011 |
| **EAN:** | 7320500203323 |
| **Catalog Description:** | A210-30-11 220-230V 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 690 V.Operated with control voltage, versions f rom 24….690 AC, 50 and 60 Hz |

## Additional Information

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| **ABB Industrial IT Suite:** | Control IT |
| **Ambient Air Temperature:** | Close to Contactor Fitted with Thermal O/L Relay (0.85 ... 1.1 Uc) -25…+50 °C<br>Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 Uc) -40…+70 °C<br>Close to Contactor for Storage -40…+70 °C |
| **BV Certificate:** | 09826/C0 BV |
| **Battery Information:** | Type NONE |
| **Block Contactor Type:** | 3-Pole Contactor |
| **CCC Certificate:** | CQC_2008010304279325 |
| **Coil Consumption:** | Pull-in at Max. Rated Control Circuit Voltage 60 Hz 1550 V·A<br>Holding at Max. Rated Control Circuit Voltage 50 Hz 60 V·A<br>Pull-in at Max. Rated Control Circuit Voltage 50 Hz 1350 V·A<br>Holding at Max. Rated Control Circuit Voltage 60 Hz 65 V·A |
| **Coil Operating Limits:** | (acc. to IEC 60947-4-1) 0.85 x Uc Min. ... 1.1 x Uc Max. (at θ ≤ 70 °C) °C |
| **Coil Voltage Code:** | 80 |
| **Connecting Capacity:** | Rigid Al-Cable 2x95…120 mm²<br>Bar 32 mm<br>Rigid Cu-Cable 16…240 mm² |
| **Connecting Capacity Auxiliary Circuit:** | Solid 2x1…4 mm²<br>Flexible with Insulated Ferrule 1x0.75…2.5 mm²<br>Stranded 2x1…4 mm²<br>Flexible 2x0.75…2.5 mm²<br>Flexible with Ferrule 2x0.75…2.5 mm² |
| **Connecting Capacity Main Circuit:** | Rigid Al-Cable 2x95…120 mm²<br>Bar 32 mm<br>Rigid Cu-Cable 16…240 mm² |
| **Connecting terminals (delivered in open position):** | YES |
| **Connecting terminals (delivered in open position) Coils terminals:** | YES |
| **Connecting terminals (delivered in open position) Main poles:** | Flat type c/w screws and bolts |
| **Conventional Free-air Thermal Current ($I_{th}$):** | acc. to IEC 60947-4-1, Open Contactors q = 40 °C 350 A |
| **Country of Origin:** | Sweden (SE) |
| **Customs Tariff Number:** | 85364900 |
| **DNV Certificate:** | DNV_E-12191 |
| **Data Sheet, Technical Information:** | 1SBC100122C0202 |
| **Declaration of Conformity - CE:** | 1SFA1-45 |
| **Degree of Protection:** | acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20<br>acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP00 |

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| **Dimension Diagram:** | 53540930-2 |
| **Drop-out Voltage in %of Uc:** | 40 … 65 % |
| **E-nummer:** | 3227874 |
| **EAN:** | 7320500203323 |
| **ETIM 4:** | EC000066 - Magnet contactor, AC-switching |
| **ETIM 5:** | EC000066 - Magnet contactor, AC-switching |
| **ETIM 6:** | EC000066 - Power contactor, AC switching |
| **Environmental Information:** | 1SFC101003D0201 |
| **Full Load Amps Motor Use:** | (440 ... 480 V AC) Three Phase 180 A<br>(550 ... 600 V AC) Three Phase 192 A |
| **GL Certificate:** | GL_15529-00HH |
| **General Use Rating UL/CSA:** | (600 V AC) 300 A |
| **Horsepower Rating UL/CSA:** | (208 V AC) Three Phase 60 Hp<br>(440 ... 480 V AC) Three Phase 150 Hp<br>(550 ... 600 V AC) Three Phase 200 Hp<br>(220 ... 240 V AC) Three Phase 75 Hp<br>(200 V AC) Three Phase 60 Hp |
| **IIT Publishing Status:** | Level 0 - Information enabled |
| **Industrial IT Certification Level:** | 0 |
| **Instructions and Manuals:** | 1SFC380003-89 |
| **Invoice Description:** | A210-30-11 220-230V 50Hz / 230-240V 60Hz Contactor |
| **LOVAG Certificate:** | IT99036 |
| **LR Certificate:** | LR_12-70003 |
| **Made To Order:** | No |
| **Maximum Breaking Capacity:** | cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 440 V 2200 A<br>cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 690 V 2000 A |
| **Maximum Electrical Switching Frequency:** | AC-3 300 cycles per hour<br>AC-1 300 cycles per hour<br>AC-2 / AC-4 150 cycles per hour |
| **Maximum Mechanical Switching Frequency:** | 3600 cycles per hour |
| **Maximum Operating Altitude Permissible:** | 3000 m |
| **Maximum Operating Voltage UL/CSA:** | Main Circuit 600 V |
| **Maximum Peak Current:** | For Capacitor Switching Î 6.5 kA |
| **Maximum Îpeak Permissible:** | 30 |
| **Mechanical Durability:** | 5 million |
| **Minimum Order Quantity:** | 1 piece |
| **Mounted Auxiliary Contacts:** | 1 NO, 1 NC |
| **Number of Auxiliary Contacts NC:** | 1 |
| **Number of Auxiliary Contacts NO:** | 1 |
| **Number of Main Contacts NC:** | 0 |
| **Number of Main Contacts NO:** | 3 |
| **Number of Poles:** | 3 |
| **Object Classification Code:** | Q |
| **Operate Time:** | Between Coil Energization and NO Contact Closing 17 ... 35 ms<br>Between Coil De-energization and NO Contact Opening 10 ... 16 ms<br>Between Coil De-energization and NC Contact Closing 7 ... 13 ms<br>Between Coil Energization and NC Contact Opening 12 ... 30 ms |
| **Order Multiple:** | 1 piece |
| **Package Level 1 EAN:** | 7320500203323 |
| **Package Level 1 Gross Weight:** | 5.75 kg |
| **Package Level 1 Height:** | |

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| **Package Level 1 Height:** | 280 mm |
| **Package Level 1 Length:** | 220 mm |
| **Package Level 1 Units:** | 1 piece |
| **Package Level 1 Width:** | 200 mm |
| **Part Type:** | New |
| **Power Loss:** | at Rated Operating Conditions per Pole 9 W |
| **Product Main Type:** | A210 |
| **Product Name:** | Contactor |
| **Product Net Depth:** | 180.5 mm |
| **Product Net Height:** | 227.0 mm |
| **Product Net Weight:** | 5.750 kg |
| **Product Net Width:** | 140.0 mm |
| **Product Packing Type:** | Box |
| **Quote Only:** | No |
| **RINA Certificate:** | ELE060313XG/001 |
| **RMRS Certificate:** | RMRS_12-03683-315 |
| **Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1:** | 8 x Ie AC-3 |
| **Rated Control Circuit Voltage ($U_c$):** | 60 Hz 230 … 240 V<br>50 Hz 220 … 230 V |
| **Rated Frequency (f):** | Main Circuit 50/60 Hz |
| **Rated Frequency Limits:** | 25…400 Hz |
| **Rated Impulse Withstand Voltage ($U_{imp}$):** | Main Circuit 8 kV |
| **Rated Insulation Voltage ($U_i$):** | acc. to UL/CSA 600 V<br>acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V |
| **Rated Making Capacity AC-3 acc. to IEC 60947-4-1:** | 10 x Ie AC-3 |
| **Rated Operational Current AC-1 ($I_e$):** | (690 V) 55 °C 300 A<br>(690 V) 40 °C 350 A<br>(690 V) 70 °C 240 A |
| **Rated Operational Current AC-3 ($I_e$):** | (690 V) 55 °C 210 A<br>(220 / 230 / 240 V) 55 °C 210 A<br>(415 V) 55 °C 210 A<br>(440 V) 55 °C 210 A<br>(380 / 400 V) 55 °C 210 A<br>(500 V) 55 °C 210 A |
| **Rated Operational Current DC-1 ($I_e$):** | (110 V) 2 Poles in Series, 40 °C 350 A<br>(220 V) 3 Poles in Series, 40 °C 350 A |
| **Rated Operational Current DC-3 ($I_e$):** | (110 V) 2 Poles in Series, 40 °C 350 A<br>(220 V) 3 Poles in Series, 40 °C 350 A |
| **Rated Operational Current DC-5 ($I_e$):** | (110 V) 2 Poles in Series, 40 °C 350 A<br>(220 V) 3 Poles in Series, 40 °C 350 A |
| **Rated Operational Power AC-3 ($P_e$):** | (500 V) 132 kW<br>(690 V) 160 kW<br>(220 / 230 / 240 V) 59 kW<br>(380 / 400 V) 110 kW<br>(440 V) 110 kW<br>(415 V) 110 kW |
| **Rated Operational Power AC-6a ($P_e$):** | (500 V) 120 kV·A<br>(415 / 440 V) 100 kV·A<br>(380 / 400 V) 90 kV·A<br>(660 / 690 V) 150 kV·A<br>(220 / 240 V) 50 kV·A |
| **Rated Operational Voltage:** | Main Circuit 690 V |
| **Rated Short-time Withstand Current ($I_{cw}$):** | at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 1200 A |

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| | at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 400 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1700 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 2500 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 1000 A |
| **Replacement Product ID (NEW):** | 1SFL527002R1311 |
| **Resistance to Shock acc. to IEC 60068-2-27:** | Shock Direction: A 5 g<br>Shock Direction: C2 5 g<br>Shock Direction: C1 5 g<br>Shock Direction: B2 5 g<br>Shock Direction: B1 5 g |
| **RoHS Date:** | 0626 6 |
| **RoHS Information:** | 1SFC101046D0203 |
| **RoHS Status:** | Following EU Directive 2002/95/EC August 18, 2005 and amendment |
| **Selling Unit of Measure:** | piece |
| **Short Description:** | A210-30-11 220-230V 50Hz / 230-240V 60Hz Contactor |
| **Short-Circuit Protective Devices:** | gG Type Fuses 400 A |
| **Technical Information:** | Mechanically |
| **Terminal Type:** | Main Circuit: Bars |
| **Tightening Torque:** | Main Circuit 18 N·m |
| **UNSPSC:** | 39121529 |