A110-30-11 110V 50Hz / 110-120V 60Hz



General Information

A110-30-11 110V 50Hz / 110-120V 60Hz **Extended Product Type:**

Product ID: 1SFI 451001R8411 EAN: 7320500141588

Catalog Description: A110-30-11 110V 50Hz / 110-120V 60Hz Contactor

A 3-phase Contactor suitable for various applications such as Motor starting, Isolation, By-Long Description:

pass 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 EAN: 7320500141588

Dimensions

Product Net Depth: 123.5 mm **Product Net Height:** 148.0 mm **Product Net Weight:** 2.040 kg **Product Net Width:** 102.0 mm

Container Information

Package Level 1 Width: 140 mm 140 mm Package Level 1 Length: Package Level 1 Height: 170 mm Package Level 1 Gross Weight: 2 kg

Package Level 1 EAN: 7320500141588 Package Level 1 Units: 1 piece

Technical

Number of Main Contacts NC: 0 **Number of Auxiliary Contacts NO:** 1 **Number of Auxiliary Contacts NC:**

Rated Operational Voltage: Main Circuit 1000 V Rated Frequency (f): Main Circuit 50/60 Hz

Conventional Free-air Thermal

Current (Ith):

acc. to IEC 60947-4-1, Open Contactors q = 40 °C 160 A

Rated Operational Current AC-1 (Ie): (690 V) 55 °C 145 A

(690 V) 40 °C 160 A (690 V) 70 °C 130 A

Rated Operational Current AC-3 (I_e): (1000 V) 55 °C 30 A

(690 V) 55 °C 82 A (415 V) 55 °C 110 A (220 / 230 / 240 V) 55 °C 110 A (440 V) 55 °C 100 A (380 / 400 V) 55 °C 110 A

Rated Operational Power AC-3 (Pe): (500 V) 59 kW

(1000 V) 40 kW (690 V) 75 kW

(500 V) 55 °C 100 A

(220 / 230 / 240 V) 30 kW (380 / 400 V) 55 kW (440 V) 59 kW (415 V) 59 kW

Rated Breaking Capacity AC-3 acc. 8 x le AC-3

to IEC 60947-4-1:

Rated Making Capacity AC-3 acc. to 10 x le AC-3

IEC 60947-4-1:

Short-Circuit Protective Devices: gG Type Fuses 200 A

Rated Short-time Withstand Current at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 500 A

 (I_{cw}) :

at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 175 A

at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 800 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1320 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 350 A

cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 1160 A **Maximum Breaking Capacity:** cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 800 A **Maximum Electrical Switching** AC-3 300 cycles per hour AC-1 300 cycles per hour Frequency: AC-2 / AC-4 150 cycles per hour Rated Operational Current DC-1 (Ie): (110 V) 2 Poles in Series, 40 °C 160 A (220 V) 3 Poles in Series, 40 °C 160 A Rated Operational Current DC-3 (Ie): (110 V) 2 Poles in Series, 40 °C 160 A (220 V) 3 Poles in Series, 40 °C 160 A Rated Operational Current DC-5 (Ie): (110 V) 2 Poles in Series, 40 °C 160 A (220 V) 3 Poles in Series, 40 °C 160 A Rated Insulation Voltage (Ui): acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V Rated Impulse Withstand Voltage Main Circuit 8 kV (U_{imp}): **Mechanical Durability:** 10 million **Maximum Mechanical Switching** 3600 cycles per hour Frequency: (acc. to IEC 60947-4-1) 0.85 x Uc Min. ... 1.1 x Uc Max. (at $\theta \le 70$ °C) °C **Coil Operating Limits:** Rated Control Circuit Voltage (Uc): 60 Hz 110 ... 120 V 50 Hz 110 V Pull-in at Max. Rated Control Circuit Voltage 60 Hz 450 V·A Coil Consumption: Holding at Max. Rated Control Circuit Voltage 50 Hz 22 V·A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 350 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 26 V·A **Operate Time:** Between Coil Energization and NO Contact Closing 10 ... 25 ms Between Coil De-energization and NO Contact Opening 10 ... 18 ms Between Coil De-energization and NC Contact Closing 7 ... 15 ms Between Coil Energization and NC Contact Opening 7 ... 22 ms Flexible with Cable End 1x10...70 mm² **Connecting Capacity Main Circuit:** Bar 30 mm² Rigid 2x6...65 mm² Solid 1x1...4 mm² **Connecting Capacity Auxiliary** Circuit: Flexible with Insulated Ferrule 2x0.75...2.5 mm² Stranded 2x1...4 mm² Flexible 2x0.75...2.5 mm² Flexible with Ferrule 1x0.75...2.5 mm² acc. to IEC 60529. IEC 60947-1. EN 60529 Coil Terminals IP20 Degree of Protection: acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP10 Connecting terminals (delivered in M8 hexagon socket screw with single connector open position) Main poles: **Terminal Type:** Cable Clamp **Number of Main Contacts NO: Environmental** 3000 m **Maximum Operating Altitude** Permissible: Resistance to Shock acc. to IEC Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: A 20 g 60068-2-27: Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: C2 20 g Half-sine Pulse for 11 ms, No Change in Contact Position, Closed, Shock Direction: A 20 g Half-sine Pulse for 11 ms, No Change in Contact Position, Closed, Shock Direction: B1 15 g Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: B2 15 g Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: C1 20 g Half-sine Pulse for 11 ms, No Change in Contact Position, Closed, Shock Direction: C2 20 g Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: B1 5 g Half-sine Pulse for 11 ms, No Change in Contact Position, Closed, Shock Direction: C1 20 g **RoHS Status:** Following EU Directive 2002/95/EC August 18, 2005 and amendment Close to Contactor Fitted with Thermal O/L Relay (0.85 ... 1.1 Uc) -25...+50 °C **Ambient Air Temperature:** Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 Uc) -40...+70 °C Close to Contactor for Storage -60...+80 °C **Technical UL/CSA**

General Use Rating UL/CSA:	(600 V AC) 140 A
Horsepower Rating UL/CSA:	(208 V AC) Three Phase 30 Hp (440 480 V AC) Three Phase 75 Hp (550 600 V AC) Three Phase 100 Hp (220 240 V AC) Three Phase 40 Hp (200 V AC) Three Phase 30 Hp
Maximum Operating Voltage UL/CSA:	Main Circuit 600 V

Certificates and Declarations (Document Number)

Instructions and Manuals: 5309660-60		•	,
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BV Certificate: 07172/D0 BV **CB Certificate:** SE-69487

CCC Certificate: CQC_2002010304008904

CSA Certificate: 314005

Data Sheet, Technical Information: 1SBC100122C0202

Declaration of Conformity - CE: 1SFA1-63 **DNV Certificate:** DNV_E-12191 **GL Certificate:** GL_99358-97HH **LOVAG Certificate:** SE-9645071-2 LR Certificate: LR_12-70027-E1 RINA Certificate: ELE060313XG/001 RMRS Certificate: RMRS_12-03683-315 **RoHS Information:** 1SFC101046D0203

Classifications

ETIM 4: EC000066 - Magnet contactor, AC-switching
ETIM 5: EC000066 - Magnet contactor, AC-switching

UNSPSC: 39121529

Object Classification Code: Q

