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

General Information

Extended Product Type:	A110-30-11 110V 50Hz / 110-120V 60Hz
Product ID:	1SFL451001R8411
EAN:	7320500141588
Catalog Description:	A110-30-11 110V 50Hz / 110-120V 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 24â€¦.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
Package Level 1 Length:	140 mm
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:	1
Rated Operational Voltage:	Main Circuit 1000 V
Rated Frequency (f):	Main Circuit 50/60 Hz
Conventional Free-air Thermal Current (I_{th}):	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 160 A
Rated Operational Current AC-1 (I_e):	(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 (500 V) 55 °C 100 A
Rated Operational Power AC-3 (P_e):	(500 V) 59 kW (1000 V) 40 kW (690 V) 75 kW (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. to IEC 60947-4-1:	8 x Ie AC-3
Rated Making Capacity AC-3 acc. to IEC 60947-4-1:	10 x Ie AC-3
Short-Circuit Protective Devices:	gG Type Fuses 200 A
Rated Short-time Withstand Current (I_{cw}):	at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 500 A 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

Maximum Breaking Capacity:	cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 440 V 1160 A cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 690 V 800 A
Maximum Electrical Switching Frequency:	AC-3 300 cycles per hour AC-1 300 cycles per hour AC-2 / AC-4 150 cycles per hour
Rated Operational Current DC-1 (I_e):	(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 (I_e):	(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 (I_e):	(110 V) 2 Poles in Series, 40 °C 160 A (220 V) 3 Poles in Series, 40 °C 160 A
Rated Insulation Voltage (U_i):	acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V
Rated Impulse Withstand Voltage (U_{imp}):	Main Circuit 8 kV
Mechanical Durability:	10 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) °C
Rated Control Circuit Voltage (U_C):	60 Hz 110 ... 120 V 50 Hz 110 V
Coil Consumption:	Pull-in at Max. Rated Control Circuit Voltage 60 Hz 450 V·A 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
Connecting Capacity Main Circuit:	Flexible with Cable End 1x10...70 mm² Bar 30 mm² Rigid 2x6...65 mm²
Connecting Capacity Auxiliary Circuit:	Solid 1x1...4 mm² 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
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 IP10
Connecting terminals (delivered in open position) Main poles:	M8 hexagon socket screw with single connector
Terminal Type:	Cable Clamp
Number of Main Contacts NO:	3

Environmental

Maximum Operating Altitude Permissible:	3000 m
Resistance to Shock acc. to IEC 60068-2-27:	Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: A 20 g 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
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 -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

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