



PRODUCT-DETAILS

AE110-30-11 220V DC
AE110-30-11 220V DC Contactor
"No longer for sale" replaced by



General Information

Extended Product Type	AE110-30-11 220V DC
Product ID	1SFL459001R8811
EAN	7320500191330
Catalog Description	AE110-30-11 220V DC 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 12 to 250VDC

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900
Replacement Product ID (NEW)	1SFL427001R1311

Popular Downloads

Data Sheet, Technical Information	1SBC100122C0202
Instructions and Manuals	5309660-60

Dimensions

Product Net Width	114 mm
Product Net Depth / Length	123.5 mm
Product Net Height	148 mm
Product Net Weight	2.04 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
Number of Poles	3P
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 $\Theta = 40^\circ\text{C}$ 160 A
Rated Operational Current AC-1 (I_e)	(690 V) 40°C 160 A (690 V) 55°C 145 A (690 V) 70°C 130 A
Rated Operational Current AC-3 (I_e)	(415 V) 55°C 110 A (440 V) 55°C 100 A (500 V) 55°C 100 A (690 V) 55°C 82 A (1000 V) 55°C 30 A (380 / 400 V) 55°C 110 A (220 / 230 / 240 V) 55°C 110
Rated Operational Power AC-3 (P_e)	(415 V) 59 kW (440 V) 59 kW (500 V) 59 kW (690 V) 75 kW (1000 V) 40 kW (380 / 400 V) 55 kW (220 / 230 / 240 V) 30 kW
Rated Operational Power AC-6b (P_e)	(500 / 550 V), 40°C , 50 / 60 Hz 83 kvar (500 / 550 V) 55°C , 50 / 60 Hz 83 kvar (500 / 550 V) 70°C , 50 / 60 Hz 78 kvar (690 V) 40°C , 50 / 60 Hz 90 kvar (690 V) 55°C , 50 / 60 Hz 90 kvar (690 V) 70°C , 50 / 60 Hz 85 kvar
Rated Breaking Capacity AC-3	8 x I_e AC-3
Rated Making Capacity AC-3	10 x I_e AC-3
Short-Circuit Protective Devices	gG Type Fuses 200 A
Rated Short-time Withstand Current Low Voltage (I_{cw})	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 15 min 175 A at 40°C Ambient Temp, in Free Air, from a Cold State 1 min 350 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 30 s 500 A
Rated Insulation Voltage (U_i)	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to UL/CSA 600 V
Rated Impulse Withstand Voltage (U_{imp})	8 kV
Maximum Electrical Switching Frequency	(AC-1) 300 cycles per hour (AC-2 / AC-4) 150 cycles per hour (AC-3) 300 cycles per hour
Mechanical Durability	5 million
Maximum Mechanical	1200 cycles per hour

Switching Frequency	
Coil Operating Limits	(acc. to IEC 60947-4-1) Uc (at $\theta \leq 70\text{ }^{\circ}\text{C}$)
Rated Control Circuit Voltage (U _c)	DC Operation 220 V
Coil Consumption	Holding at Max. Rated Control Circuit Voltage 50 Hz 2.4 W Holding at Max. Rated Control Circuit Voltage DC 2.4 W Pull-in at Max. Rated Control Circuit Voltage DC 400 W
Power Loss	at Rated Operating Conditions per Pole 7.5 W
Operate Time	Between Coil De-energization and NC Contact Closing 15 ... 20 ms Between Coil De-energization and NO Contact Opening 18 ... 23 ms Between Coil Energization and NC Contact Opening 12 ... 22 ms Between Coil Energization and NO Contact Closing 15 ... 25 ms
Degree of Protection	acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP40
Connecting Terminals (delivered in open position) Main Poles	M8 hexagon socket screw with single connector
Terminal Type	Cable Clamp
Product Name	Block Contactor

Technical UL/CSA

Horsepower Rating	(200 V AC) Three Phase 30 hp
UL/CSA	(208 V AC) Three Phase 30 hp (220 ... 240 V AC) Three Phase 40 hp (440 ... 480 V AC) Three Phase 75 hp (550 ... 600 V AC) Three Phase 100 hp
Full Load Amps Motor Use	(440 ... 480 V AC) Three Phase 96 A (550 ... 600 V AC) Three Phase 99 A

Environmental

Ambient Air Temperature	Close to Contactor Fitted with Thermal O/L Relay (0.85 ... 1.1 Uc) -25 ... 55 °C Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 Uc) -25 ... 70 °C Close to Contactor for Storage -40 ... 70 °C
Maximum Operating Altitude Permissible	Without Derating 3000 m

Material Compliance

RoHS Information	2CMT2015-005436
RoHS Status	Following EU Directive 2002/95/EC August 18, 2005 and amendment
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Certificates and Declarations

Declaration of Conformity - CE	2CMT2015-005436
--------------------------------	-----------------

Container Information

Package Level 1 Units	1 piece
Package Level 1 Width	140 mm
Package Level 1 Depth / Length	185 mm
Package Level 1 Height	165 mm
Package Level 1 Gross Weight	2.1 kg

Classifications		
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	

Categories
Low Voltage Products and Systems → Control Products → Contactors → Block Contactors → A Contactors

