AE110-30-11 220V DC 1/4



PRODUCT-DETAILS

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



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
Ordering	
Customs Tariff Number	85364900
Replacement Product ID	1SFL427001R1311
(NEW)	101 242/00/11(1311
Popular Downloads	
Data Sheet, Technical	1SBC100122C0202
Information	

AE110-30-11 220V DC 2/4

AC-1 (I _e) Reted Operational Current AC-3 (I _e) Reted Operational Power AC-3 (I _e) Reted Operational Power AC-3 (P _e) Reted Operational Power AC-3 (P _e) Reted Operational Power AC-3 (P _e) Reted Operational Power AC-6 (F _e) Reted Operational Power A	Dimensions	
Product Net Peight		114 mm
Product Net Height		
Technical	Product Net Height	148 mm
Number of Main Contacts NO Number of Main Contacts NC Number of Auxiliary Contacts NO Number of Poles Service Stated Deprational Voltage Rated Operational Voltage Rated Operational Voltage Rated Operational Current (690 V) 40 °C 160 A AC-1 (19) Rated Operational Current (690 V) 40 °C 160 A AC-1 (19) Rated Operational Current (690 V) 40 °C 160 A AC-1 (19) Rated Operational Current (690 V) 40 °C 160 A AC-3 (19) Rated Operational Current (690 V) 40 °C 160 A AC-3 (19) Rated Operational Current (690 V) 40 °C 160 A AC-3 (19) Rated Operational Current (690 V) 40 °C 160 A AC-3 (19) Rated Operational Current (690 V) 40 °C 160 A AC-3 (19) Rated Operational Current (690 V) 55 °C 120 A (1800 V) 55 °C 120 A (1800 V) 55 °C 100 A (1800 V	Product Net Weight	2.04 kg
NO Number of Main Contacts NC Number of Auxiliary Contacts NO Number of Auxiliary Contacts NO Number of Auxiliary Contacts NO Number of Poles Rated Operational Voltage Rated Operational Voltage Rated Operational Current (hg) Rated Operational Power (hg) (hg) (hg) (hg) (hg) (hg) (hg) (hg)	Technical	
Nomber of Auxiliary Contacts NO Number of Auxiliary Contacts NO Number of Auxiliary Contacts NO Number of Poles Rated Operational Voltage Rated Frequency (f) Rated Frequency (f) Rated Operational Free-air Rated Operational Current Ac-C1 (lg-) Rated Operational Power Ac-C1 (lg-) Rated Operational		3
Contacts NO Number of Auxiliary 1 1 1 1 1 1 1 1 1		0
Contacts NC 3P Rated Operational Voltage Main Circuit 1000 V Rated Frequency (f) Main Circuit 1000 V Conventional Free-air acc. to IEC 60947-4-1, Open Contactors O = 40 °C 160 A Thermal Current (I _m) (690 V) 40 °C 160 A Rated Operational Current (890 V) 55 °C 145 A AC-1 (I _e) (890 V) 55 °C 145 A Rated Operational Current (415 V) 55 °C 100 A AC-3 (I _e) (890 V) 55 °C 100 A Rated Operational Power (220 1230 V240 V) 55 °C 110 A AC-3 (I _e) (220 1230 V240 V) 55 °C 110 A Rated Operational Power (220 1230 V240 V) 55 °C 110 A AC-3 (I _e) (380 V) 50 °C 30 A Rated Operational Power (500 V 550 V), 40 °C 50 / 50 V, 50 °C 50 A AC-3 (I _e) (500 V 550 V), 40 °C 50 / 50 V, 50 °C 50 / 50 V, 50 °C 50 V, 50 °C 50 / 50 V, 50 °C 50 / 50 V, 50 °C 50 / 50 V, 50 °C 50 V, 50 °C 50 / 50 V, 50 °C 50 / 50 V, 50 °C 50 / 50 V, 50 °C 50 V, 50 °C 50 / 50 V, 50 °C		1
Rated Operational Voltage	Contacts NC	
Rated Frequency (f)		
Conventional Free-air Thermal Current (Int)		
Thermal Current (Im) Rated Operational Current (690 V) 40 ° C 160 A A CA-1 (In) (690 V) 55 ° C 145 A (690 V) 70 ° C 130 A (690 V) 75 ° C 110 A (690 V) 55 ° C 110 A (500 V) 55 ° C 100 A (1000 V) 55 ° C 110 A (220 / 230 / 240 V) 55 ° C 210 A (220 / 230 / 240 V) 55 ° C 210 A (220 / 230 / 240 V) 55 ° C 210 A (220 / 230 / 240 V) 55 ° C 210 A (220 / 230 V) 55 ° C 2		
AC-1 (I _e) Reted Operational Current AC-3 (I _e) Reted Operational Power AC-3 (I _e) Reted Operational Power AC-3 (P _e) Reted Operational Power AC-3 (P _e) Reted Operational Power AC-3 (P _e) Reted Operational Power AC-6 (F _e) Reted Operational Power A	Thermal Current (I _{th})	
AC-3 (le) (440 \(\) \) 55 \(^2\) 102 A (690 \(\) 55 \(^2\) 102 A (7000 \(\) \) 55 \(^2\) 102 A (7000 \(\) \) 55 \(^2\) 102 A (7000 \(\) \) 55 \(^2\) 102 A (7000 \(\) \) 55 \(^2\) 102 A (7000 \(\) \) 55 \(^2\) 102 A (7000 \(\) \) 55 \(^2\) 102 A (7000 \(\) \) 55 \(^2\) 102 A (7000 \(\) \) 55 \(^2\) 102 A (7000 \(\) \) 55 \(^2\) 102 A (7000 \(\) \) 55 \(^2\) 102 A (7000 \(\) \) 55 \(^2\) 102 A (7000 \(\) \) 55 \(^2\) 102 A (7000 \(\) \) 55 \(^2\) 102 A (7000 \(\) \) 55 \(^2\) 102 A (7000 \(\) \) 55 \(^2\) 102 A (7000 \(\) \) 55 \(^2\) 102 A (7000 \(\) \) 55 \(^2\) 102 A (7000 \(\) \) 55 \(^2\) 102 A (7000 \(\) 102 A (7000 \(\) \) 55 \(\) 102 A (7000 \(\) \) 102 A (7000 \(\) 102 A (7000 \(\) \) 102 A (7000 \(\) 102 A (70000 \(\) 102 A (7000 \(\) 102 A (70000 \(\) 102 A (7000 \(\) 102 A (70000 \(\) 102 A (700000 \(\) 102 A (700000 \(\) 102 A (700000000000000000000000000000000000		(690 V) 55 °C 145 A
AC-3 (Pe) (440 V) 59 kW (500 V) 59 kW (690 V) 75 kW (1000 V) 40 kW (830 I 400 V) 55 kW (800 I 400 V) 55 k	•	(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
Rated Operational Power AC-6b (Pe)		(440 V) 59 kW (500 V) 59 kW (690 V) 75 kW (1000 V) 40 kW (380 / 400 V) 55 kW
AC-3 Rated Making Capacity AC-3 Short-Circuit Protective Devices Rated Short-time Rated Insulation Voltage Rated Insulation Voltage Rated Insulation Voltage Rated Insulation Voltage Rated Impulse Withstand Rated Impulse Rate 10 s 800 A Rated Insurant Temp, in Free Air, from a Cold State 10 s 800 A Rated Insurant Temp, in Free Air, from a Cold State 10 s 800 A Rated Insurant Temp, in Free Air, from a Cold State 10 s 800 A Rated Insurant Temp, in Free Air, from a Cold State 10 s 800 A Rated Insurant Temp, in Free Air, from a Cold State 10 s 800 A Rated Insurant Temp, in Free Air, from a Cold State 10 s 800 A Rated Insurant Temp, in Free Air, from a Cold Stat		(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
AC-3 Short-Circuit Protective Devices Rated Short-time at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 800 A Withstand Current Low Voltage (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 1 min 350 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 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) Rated Impulse Withstand Voltage (U _{imp}) Maximum Electrical Switching Frequency (AC-1) 300 cycles per hour (AC-3) 300 cycles per hour (AC-3) 300 cycles per hour		8 x le AC-3
Devices Rated Short-time 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 3 s 500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 3 s 500 A 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 10 s 500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 500 A at 40 °C A		10 x le AC-3
Withstand Current Low Voltage (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 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 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) Rated Impulse Withstand Voltage (U _{imp}) Maximum Electrical Switching Frequency Mechanical Durability 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 min 350 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 min 350 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 min 350 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 10 min 350 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 min 350 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 min 350 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 min 350 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 min 350 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 min 350 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 min 350 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 min 350 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 min 350 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 min 350 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 min 350 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 min 350 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 min 350 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 min 350 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 min 350 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 min 350 A at 40 °		gG Type Fuses 200 A
(U _i) Rated Impulse Withstand 8 kV Voltage (U _{imp}) Maximum Electrical Switching Frequency (AC-2 / AC-4) 150 cycles per hour (AC-3) 300 cycles per hour (AC-3) 300 cycles per hour	Withstand Current Low	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
Voltage (Ü _{imp}) Maximum Electrical Switching Frequency (AC-1) 300 cycles per hour (AC-2 / AC-4) 150 cycles per hour (AC-3) 300 cycles per hour (AC-3) 300 cycles per hour		
Switching Frequency (AC-2 / AC-4) 150 cycles per hour (AC-3) 300 cycles per hour (AC-3) 300 cycles per hour (AC-3) 300 cycles per hour		8 kV
	Switching Frequency	(AC-2 / AC-4) 150 cycles per hour (AC-3) 300 cycles per hour
Maximum Mechanical 1200 cycles per hour		

AE110-30-11 220V DC 3/4

Switching Frequency	
Coil Operating Limits	(acc. to IEC 60947-4-1) Uc (at $\theta \le 70$ °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 UL/CSA	(200 V AC) Three Phase 30 hp (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 WEEE Category	Business To Business 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 Package Level 1 Depth / Length	140 mm 185 mm
Package Level 1 Height	165 mm
Package Level 1 Gross Weight	2.1 kg

AE110-30-11 220V DC 4/4

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

 $Low\ Voltage\ Products\ and\ Systems \rightarrow Control\ Products \rightarrow Contactors \rightarrow Block\ Contactors \rightarrow A\ Contactors$

