

PRODUCT-DETAILS

AM300-30-11-78 AM300-30-11 110-125V 50/60Hz / DC Contactor



Extended Product Type	AM300-30-11-78
Product ID	1SFL558029R7811
EAN	7320500356920
Catalog Description	AM300-30-11 110-125V 50/60Hz / 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 690 V. Magnetically latch, control voltage 110- 125 V, AC/DC latch
Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900
Popular Downloads	
Popular Downloads Data Sheet, Technical Information	1SBC100192C0206

Product Net Height	Product Net Width	164 mm
Product Net Weight	•	180.5 mm
Technical Number of Main Contacts NO Number of Auxiliary Contracts NO Nain Circuit 509 V Rated Prequency (f) Rated Operational Voltage Main Circuit 509 60 Hz Conventional Free-air Rated Operational Current (690 V) 40 °C 500 A (690 V) 50 °C 680 A (690 V) 50 °C 68	Product Net Height	227 mm
Number of Main Contacts NC Number of Main Contacts NC Number of Auxiliary Contacts NC Number of Auxiliary Contacts NC Namber of Auxiliary Contacts NC Rated Frequency (f) Rated Frequency (f) Rated Frequency (f) Rated Sperational Voltage Rated Frequency (f) Rated Operational Free-air Thermal Current (f _m) Rated Operational Current (690 V) 40 °C 500 A (690 V) 70 °C 325 A (690 V) 75 °C 320	Product Net Weight	5.4 kg
NO Number of Main Contacts NC Number of Auxiliary Contacts NO Number of Auxiliary Contacts NO Rated Operational Voltage Rated Operational Voltage Rated Operational Current (m) Rated Prequency (f) Rated Operational Current (m) Conventional Free-air Rated Operational Current (800 V), 40 °C 500 A (800 V), 55 °C 200 A (800 V),	Technical	
NC Number of Auxiliary		3
Contacts NO 1 Number of Auxiliary 1 Contacts NC Main Circuit 50 / 80 Hz Rated Operational Voltage Main Circuit 50 / 80 Hz Conventional Free-air acc. to IEC 60947-4-1, Open Contactors q = 40 °C 500 A Thermal Current (I _m) (690 V) 40 °C 500 A Rated Operational Current (690 V) 70 °C 325 A AC-1 (I _a) (690 V) 75 °C 400 A (690 V) 75 °C 400 A (690 V) 75 °C 400 A (690 V) 75 °C 400 A (690 V) 75 °C 400 A (690 V) 75 °C 400 A (690 V) 75 °C 400 A (690 V) 75 °C 200 A (690 V) 75 °C 200 A (690 V) 75 °C 200 A (690 V) 75 °C 200 A (690 V) 75 °C 200 A (690 V) 75 °C 200 A (800 V) 75 °C 200 A (200 V) 230 °C 240 V) 90 °C 200 A (800 V) 75 °C 200 A (200 V) 230 °C 240 V) 90 °C 200 A (800 V) 75 °C 200 A (200 V) 230 °C 240 V) 90 °C 200 A (800 V) 75 °C 200 A (200 V) 230 °C 240 V) 90 °C 200 A (800 V) 75 °C 200 A (200 V) 230 °C 240 V) 90 °C 200 A (800 V) 75 °C 200 A (200 V) 250 °C 200 A (800 V) 75 °C 200 A (200 V) 250 °C 200 A <t< td=""><td></td><td>0</td></t<>		0
Contacts NC Rated Operational Voltage Main Circuit 690 V Rated Frequency (f) Main Circuit 50 / 60 Hz Conventional Free-air acc. to IEC 60947-4-1, Open Contactors q = 40 °C 500 A Thermal Current (I _{th}) (690 V) 40 °C 500 A Rated Operational Current (690 V) 55 °C 200 A AC-1 (I _{th}) (690 V) 55 °C 200 A Rated Operational Current (1415 V) 55 °C 200 A AC-3 (I _{th}) (690 V) 55 °C 200 A (690 V) 55 °C 200 A (500 V) 55 °C 200 A (690 V) 55 °C 200 A (690 V) 55 °C 200 A (690 V) 55 °C 200 A (300 V) 400 V) 55 °C 200 A (200 V) 200 EW (200 V) 200 EW Rated Operational Power (415 V) 160 EW AC-3 (P _e) (440 V) 150 EW Rated Breaking Capacity 8 x le AC-3 AC-3 (P _e) Rated Breaking Capacity 8 x le AC-3 AC-3 (P _e) Rated Breaking Capacity 8 x le AC-3 AC-3 (P _e) Rated Making Capacity 9 C You be an in the second of th	•	1
Rated Frequency (f)	•	1
Conventional Free-air Thermal Current (I _(h)) acc. to IEC 60947-4-1, Open Contactors q = 40 °C 500 A Thermal Current (I _(h)) (690 V) 40 °C 500 A A C-1 (I _(e)) (690 V) 40 °C 500 A A C-1 (I _(e)) (690 V) 70 °C 325 A Rated Operational Current (415 V) 55 °C 300 A (690 V) 70 °C 325 A A C-3 (I _(e)) (440 V) 55 °C 300 A (500 V) 55 °C 280 A (500 V) 55 °C 280 A (500 V) 55 °C 280 A (500 V) 55 °C 300 A (380 V) 400 V) 50 °C 300 A (380 V) 400 V) 50 °C 300 A (380 V) 400 V) 50 °C 300 A (380 V) 400 V) 160 kW (500 V) 250 kW (200 V) 200 kW (20	Rated Operational Voltage	Main Circuit 690 V
Rated Operational Current (I _{th}) Rated Operational Current (690 V) 40 °C 500 A AC-1 (I _e) (690 V) 50 °C 400 A AC-1 (I _e) (690 V) 70 °C 325 A Rated Operational Current (415 V) 55 °C 300 A (690 V) 70 °C 325 A (690 V) 55 °C 280 A (690 V) 250 °C 280	Rated Frequency (f)	Main Circuit 50 / 60 Hz
AC-1 (I _g) Rated Operational Current (415 V) 55 °C 200 A (690 V) 70 °C 325 A Rated Operational Current (415 V) 55 °C 280 A (690 V) 70 °C 325 A (440 V) 55 °C 280 A (690 V) 55 °C 280 A (220 / 230 / 240 V) 55 °C 305 A (220 V) 3 Poles in Series, 40 °C 450 A (220 V) 3 Poles in Series, 40 °C 450 A (220 V) 3 Poles in Series, 40 °C 450 A (220 V) 3 Poles in Series, 40 °C 450 A (220 V) 3 Poles in Series, 40 °C 450 A (220 V) 3 Poles in Series, 40 °C 450 A (220 V) 3 Poles in Series, 40 °C 450 A (220 V) 3 Poles in Series, 40 °C 450 A		acc. to IEC 60947-4-1, Open Contactors q = 40 °C 500 A
AC-3 (le) (440 V) 55 °C 280 A (500 V) 55 °C 280 A (500 V) 55 °C 280 A (690 V) 55 °C 280 A (690 V) 55 °C 280 A (380 / 400 V) 55 °C 280 A (220 / 230 / 240 V) 55 °C 280 A (220 / 230 / 240 V) 55 °C 280 A (220 / 230 / 240 V) 55 °C 280 A (220 / 230 / 240 V) 160 kW (500 V) 200 kW (380 / 400 V) 160 kW (500 V) 200 kW (380 / 400 V) 160 kW (220 / 230 / 240 V) 90 kW (380 / 400 V) 160 kW (220 / 230 / 240 V) 90 kW AC-3 Rated Breaking Capacity AC-3 Rated Making Capacity British Capacity AC-3 Short-Circuit Protective Brevices Rated Short-time at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 2400 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C	Rated Operational Current AC-1 (I _e)	(690 V) 40 °C 500 A (690 V) 55 °C 400 A (690 V) 70 °C 325 A
AC-3 (Pe) (440 V) 160 kW (500 V) 200 kW (890 V) 250 kW (380 / 400 V) 160 kW (220 / 230 / 240 V) 90 kW Rated Breaking Capacity AC-3 AC-3 Short-Circuit Protective gG Type Fuses 500 A Devices Rated Short-time at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 2400 A Withstand Current Low Voltage (I _{cw}) at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 1100 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from	Rated Operational Current AC-3 (I _e)	(415 V) 55 °C 300 A (440 V) 55 °C 280 A (500 V) 55 °C 280 A (690 V) 55 °C 280 A (380 / 400 V) 55 °C 305 A (220 / 230 / 240 V) 55 °C 305
Rated Breaking Capacity 8 x le AC-3 AC-3		(415 V) 160 kW (440 V) 160 kW (500 V) 200 kW (690 V) 250 kW (380 / 400 V) 160 kW (220 / 230 / 240 V) 90 kW
AC-3 Short-Circuit Protective gG Type Fuses 500 A Devices Rated Short-time at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 2400 A Withstand Current Low at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 500 A Voltage (I _{cw}) at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 1100 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 1100 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 1500 A Maximum Breaking cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 ∨ 3000 A Capacity cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 ∨ 2500 A Maximum Electrical (AC-1) 300 cycles per hour Switching Frequency (AC-2 / AC-4) 150 cycles per hour (AC-3) 300 cycles per hour Rated Operational Current (110 V) 2 Poles in Series, 40 °C 450 A Capacity (220 V) 3 Poles in Series, 40 °C 450 A Rated Operational Current (110 V) 2 Poles in Series, 40 °C 450 A Rated Operational Current (110 V) 2 Poles in Series, 40 °C 450 A Rated Operational Current (110 V) 2 Poles in Series, 40 °C 450 A Rated Operational Current (110 V) 2 Poles in Series, 40 °C 450 A Rated Operational Current (110 V) 2 Poles in Series, 40 °C 450 A		8 x le AC-3
Devices Rated Short-time Rated Short-time at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 2400 A Withstand Current Low Voltage (I _{cw}) at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 1100 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 1500 A Maximum Breaking cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 3000 A capacity cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 2500 A Maximum Electrical (AC-1) 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 Rated Operational Current (110 V) 2 Poles in Series, 40 °C 450 A DC-1 (I _e) (220 V) 3 Poles in Series, 40 °C 450 A DC-3 (I _e) Rated Operational Current (110 V) 2 Poles in Series, 40 °C 450 A Rated Operational Current (110 V) 2 Poles in Series, 40 °C 450 A Rated Operational Current (110 V) 2 Poles in Series, 40 °C 450 A Rated Operational Current (110 V) 2 Poles in Series, 40 °C 450 A Rated Operational Current		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 500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 1100 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 1500 A Maximum Breaking cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 3000 A capacity maximum Electrical (AC-1) 300 cycles per hour (AC-2 / AC-4) 150 cycles per hour (AC-3) 300 cycles per		gG Type Fuses 500 A
Capacity $\cos phi=0.45$ ($\cos phi=0.35$ for le > 100 A) at 690 V 2500 A Maximum Electrical (AC-1) 300 cycles per hour Switching Frequency (AC-2 / AC-4) 150 cycles per hour (AC-3) 300 cycles per hour (AC-2 / AC-4) 150 cycles per hour (AC-2 / AC-4) 150 cycles per hour (AC-1) 200 cycles per hour (AC-2) 300 cycles per hour (AC-3) 300 cycles per hour (AC-3) 300 cycles per hour (AC-3) 300 cycles per hour (AC-2) AC-4) 150 cycles in Series, 40 °C 450 A Cate Operational Current (110 V) 2 Poles in Series, 40 °C 450 A Rated Operational Current (110 V) 2 Poles in Series, 40 °C 450 A Rated Operational Current (110 V) 2 Poles in Series, 40 °C 450 A		at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 2400 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 1100 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 1500 A
Switching Frequency (AC-2 / AC-4) 150 cycles per hour (AC-3) 300 cycles per hour (AC-3) 300 cycles per hour Rated Operational Current DC-1 (I _e) (110 V) 2 Poles in Series, 40 °C 450 A Rated Operational Current (110 V) 2 Poles in Series, 40 °C 450 A DC-3 (I _e) (220 V) 3 Poles in Series, 40 °C 450 A Capable of Capable o	_	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 3000 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 2500 A
DC-1 (I _e) (220 V) 3 Poles in Series, 40 °C 450 A Rated Operational Current (110 V) 2 Poles in Series, 40 °C 450 A DC-3 (I _e) (220 V) 3 Poles in Series, 40 °C 450 A (220 V) 3 Poles in Series, 40 °C 450 A (210 V) 2 Poles in Series, 40 °C 450 A		(AC-1) 300 cycles per hour (AC-2 / AC-4) 150 cycles per hour (AC-3) 300 cycles per hour
DC-3 (I _e) (220 V) 3 Poles in Series, 40 °C 450 A Rated Operational Current (110 V) 2 Poles in Series, 40 °C 450 A	•	(110 V) 2 Poles in Series, 40 °C 450 A (220 V) 3 Poles in Series, 40 °C 450 A
	· · · · · · · · · · · · · · · · · · ·	(110 V) 2 Poles in Series, 40 °C 450 A (220 V) 3 Poles in Series, 40 °C 450 A
		(110 V) 2 Poles in Series, 40 °C 450 A (220 V) 3 Poles in Series, 40 °C 450 A

acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to UL/CSA 600 V	Rated Insulation Voltage (U _i)
Main Circuit 8 kV	Rated Impulse Withstand Voltage (U _{imp})
5 million	Mechanical Durability
300 cycles per hour	Maximum Mechanical Switching Frequency
(acc. to IEC 60947-4-1) 0.85 x Uc Min 1.1 x Uc Max. (at θ ≤ 70 °C)	Coil Operating Limits
50 Hz 110 125 V 60 Hz 110 125 V DC Operation 110 125 V	Rated Control Circuit Voltage (U_c)
Holding at Max. Rated Control Circuit Voltage 50 Hz 10 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 10 V·A Holding at Max. Rated Control Circuit Voltage DC 2 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 470 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 470 V·A Pull-in at Max. Rated Control Circuit Voltage DC 520 W	Coil Consumption
Between Coil De-energization and NC Contact Closing 40 50 ms Between Coil De-energization and NO Contact Opening 43 53 ms Between Coil Energization and NC Contact Opening 45 85 ms Between Coil Energization and NO Contact Closing 50 90 ms	Operate Time
Bar 32 mm² Rigid Al-Cable 120 240 mm² Rigid Cu-Cable 16 240 mm²	Connecting Capacity Main Circuit
Flexible with Ferrule 2x 0.75 2.5 mm² Flexible with Insulated Ferrule 2x 0.75 2.5 mm² Flexible 2x0.75 2.5 mm² Solid 2 x 1 4 mm² Stranded 2 x 1 4 mm²	Connecting Capacity Auxiliary Circuit
acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP00	Degree of Protection
Flat type c/w screws and bolts	Connecting Terminals (delivered in open position) Main Poles
Main Circuit: Bars	Terminal Type
	Technical UL/CSA
Main Circuit 600 V	Maximum Operating Voltage UL/CSA
(200 V AC) Three Phase 100 hp (208 V AC) Three Phase 100 hp (220 240 V AC) Three Phase 100 hp (440 480 V AC) Three Phase 250 hp (550 600 V AC) Three Phase 300 hp	Horsepower Rating UL/CSA

Environmental	
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 -40 +70 °C
Maximum Operating Altitude Permissible	Without Derating 3000 m
Resistance to Shock acc. to IEC 60068-2-27	Shock Direction: A 5 g Shock Direction: B1 5 g Shock Direction: B2 5 g Shock Direction: C1 5 g Shock Direction: C2 5 g

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Certificates and Declarations (Document Number)	
Declaration of Conformity - CE	2CMT2015-005436
Environmental Information	1SFC101063D0201
GL Certificate	GL_20262-04HH
Instructions and Manuals	1SFC101024M5501
RINA Certificate	ELE060313XG/002
RMRS Certificate	RMRS_12-03683-315
RoHS Information	2CMT2015-005436

Container Information	
Package Level 1 Units	box 1 piece
Package Level 1 Width	203 mm
Package Level 1 Depth / Length	245 mm
Package Level 1 Height	188 mm
Package Level 1 Gross Weight	6.1 kg

Classifications		
Object Classification Code	Q	
ETIM 4	EC000066 - Magnet contactor, AC-switching	
ETIM 5	EC000066 - Magnet contactor, AC-switching	
ETIM 6	EC000066 - Power contactor, AC switching	
ETIM 7	EC000066 - Power contactor, AC switching	
ETIM 8	EC000066 - Power contactor, AC switching	
eClass	V11.0 : 27371003	
UNSPSC	39121529	
IDEA Granular Category Code (IGCC)	4755 >> Contactors	

Categories

Package Level 1 EAN

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