

1SFC380003-89 53540930-2

PRODUCT-DETAILS

Information

Instructions and Manuals

Dimension Diagram

AF300-30-22-72 AF300-30-22 20-60V DC Contactor For sale but "Obsolete", replaced by



Extended Product Type	AF300-30-22-72
Product ID	1SFL557001R7222
EAN	7320500222836
Catalog Description	AF300-30-22 20-60V 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. Operated with wide control voltage range 20-60 V, DC
Minimum Order Quantity	1 piece
Minimum Order Quantity	1 piece 85364900
Ordering Minimum Order Quantity Customs Tariff Number Replacement Product ID (NEW)	85364900
Minimum Order Quantity Customs Tariff Number Replacement Product ID	85364900
Minimum Order Quantity Customs Tariff Number Replacement Product ID	·

Dimensions	
Product Net Width	140 mm
Product Net Depth / Length	180.5 mm
Product Net Height	227 mm
Product Net Weight	5.1 kg
Technical	
Number of Main Contacts NO	3
Number of Main Contacts NC	
Number of Auxiliary Contacts NO	2
Number of Auxiliary Contacts NC	2
Rated Operational Voltage	Main Circuit 690 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 500 A
Rated Operational Current AC-1 (I_e)	(690 V) 40 °C 500 (690 V) 55 °C 400 (690 V) 70 °C 325
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 A
Rated Operational Power AC-3 (P _e)	(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
Rated Breaking Capacity AC-3 acc. to IEC 60947-4-	8 x le AC-3
Rated Making Capacity AC-3 acc. to IEC 60947-4-	10 x le AC-3
Short-Circuit Protective Devices	gG Type Fuses 500 A
Rated Short-time Withstand Current Low Voltage (I _{cw})	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
Maximum Breaking Capacity	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
Maximum Electrical Switching Frequency	(AC-1) 300 cycles per hou (AC-2 / AC-4) 150 cycles per hou (AC-3) 300 cycles per hou
Rated Operational Current DC-1 (I _e)	(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	Rated Operational Current DC-3 (I_e)
(110 V) 2 Poles in Series, 40 °C 450 a (220 V) 3 Poles in Series, 40 °C 450 a	Rated Operational Current DC-5 (I _e)
acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 acc. to UL/CSA 600 v	Rated Insulation Voltage (U _i)
Main Circuit 8 k	Rated Impulse Withstand Voltage (U _{imp})
5 millio	Mechanical Durability
300 cycles per hou	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
DC Operation 24 60	Rated Control Circuit Voltage (U _c)
Holding at Max. Rated Control Circuit Voltage 50 Hz 10 V· Holding at Max. Rated Control Circuit Voltage 60 Hz 10 V· Holding at Max. Rated Control Circuit Voltage DC 2 V Pull-in at Max. Rated Control Circuit Voltage 50 Hz 470 V· Pull-in at Max. Rated Control Circuit Voltage 60 Hz 470 V· Pull-in at Max. Rated Control Circuit Voltage DC 520 V	Coil Consumption
Between Coil De-energization and NC Contact Closing 40 50 m Between Coil De-energization and NO Contact Opening 43 53 m Between Coil Energization and NC Contact Opening 45 85 m Between Coil Energization and NO Contact Closing 50 90 m	Operate Time
Bar 32 mm Rigid Al-Cable 2 x 95 120 mm Rigid Cu-Cable 16 240 mm	Connecting Capacity Main Circuit
Flexible with Ferrule 2x 0.75 2.5 mm Flexible with Insulated Ferrule 2x 0.75 2.5 mm Flexible 2x0.75 2.5 mm Solid 2 x 1 4 mm Stranded 2 x 1 4 mm	Connecting Capacity Auxiliary Circuit
acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP2 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP0	Degree of Protection
Main Circuit: Bar	Terminal Type
	Technical UL/CSA
Main Circuit 600	Maximum Operating Voltage UL/CSA
(600 V AC) 400 A	General Use Rating UL/CSA
(200 V AC) Three Phase 100 h (208 V AC) Three Phase 100 h (220 240 V AC) Three Phase 100 h (440 480 V AC) Three Phase 250 h (550 600 V AC) Three Phase 300 h	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 Resistance to Shock acc. Shock Direction: A 5 g to IEC 60068-2-27 Shock Direction: B1 5 g

Shock Direction: B2 5 g Shock Direction: C1 5 g Shock Direction: C2 5 g

RoHS Status Following EU Directive 2011/65/EU

ABS Certificate	15-LD1408622-PDA
BV Certificate	BV_13409-C0BV
CB Certificate	SEMKO_SE-69480
CCS Certificate	GB14T00030
CQC Certificate	CQC2007010304256681
Declaration of Conformity - CCC	2020980304001554
Declaration of Conformity - CE	2CMT2015-005436
DNV GL Certificate	TAE00001W1
EAC Certificate	9AKK107046A8618
Environmental Information	1SFC101008D0201
GL Certificate	GL_20262-04HH
Instructions and Manuals	1SFC380003-89
LOVAG Certificate	SE-0115200
LR Certificate	16-20064
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	5.8 kg	
Package Level 1 EAN	7320500222836	

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

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Categories

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

