

A300-30-22-86



A300-30-22 400-415V 50Hz / 415-440V 60Hz Contactor

General Information

Extended Product Type	A300-30-22-86
Product ID	1SFL551001R8622
EAN	7320500214701
Catalog Description	A300-30-22 400-415V 50Hz / 415-440V 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 690 V. Operated with control voltage, versions from 24...690 AC, 50 and 60 Hz

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900
Replacement Product ID (NEW)	1SFL587002R1422

Popular Downloads

Data Sheet, Technical Information	1SBC100122C0202
Instructions and Manuals	1SFC380003-89
Dimension Diagram	53540930-2

Dimensions

Product Net Width	140.0 mm
Product Net Depth / Length	180.5 mm
Product Net Height	227.0 mm
Product Net Weight	6.100 kg

Technical

Number of Main Contacts NO	3
Number of Main Contacts NC	0
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 $q = 40\text{ }^{\circ}\text{C}$ 500 A

Rated Operational Current AC-1 (I_e)	(690 V) 55 °C 400 A (690 V) 40 °C 500 A (690 V) 70 °C 325 A
Rated Operational Current AC-3 (I_e)	(690 V) 55 °C 280 A (220 / 230 / 240 V) 55 °C 305 A (415 V) 55 °C 300 A (440 V) 55 °C 280 A (380 / 400 V) 55 °C 305 A (500 V) 55 °C 280 A
Rated Operational Power AC-3 (P_e)	(500 V) 200 kW (690 V) 250 kW (220 / 230 / 240 V) 90 kW (380 / 400 V) 160 kW (440 V) 160 kW (415 V) 160 kW
Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1	8 x I_e AC-3
Rated Making Capacity AC-3 acc. to IEC 60947-4-1	10 x I_e AC-3
Short-Circuit Protective Devices	gG Type Fuses 500 A
Rated Short-time Withstand Current (I_{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 1500 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 10 s 2400 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 min 1100 A
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 440 V 3000 A cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 690 V 2500 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 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)	(110 V) 2 Poles in Series, 40 °C 450 A (220 V) 3 Poles in Series, 40 °C 450 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	5 million
Maximum Mechanical Switching Frequency	3600 cycles per hour
Coil Operating Limits	(acc. to IEC 60947-4-1) 0.85 x U_c Min. ... 1.1 x U_c Max. (at $\theta \leq 70$ °C) °C
Rated Control Circuit Voltage (U_c)	60 Hz 415 ... 440 V 50 Hz 400 ... 415 V
Coil Consumption	Pull-in at Max. Rated Control Circuit Voltage 60 Hz 1550 V·A Holding at Max. Rated Control Circuit Voltage 50 Hz 60 V·A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 1350 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 65 V·A
Operate Time	Between Coil Energization and NO Contact Closing 17 ... 35 ms Between Coil De-energization and NO Contact Opening 10 ... 16 ms Between Coil De-energization and NC Contact Closing 7 ... 13 ms Between Coil Energization and NC Contact Opening 12 ... 30 ms
Connecting Capacity Main Circuit	Rigid Al-Cable 2 x 95 ... 120 mm ² Bar 32 mm Rigid Cu-Cable 16 ... 240 mm ²
Connecting Capacity Auxiliary Circuit	Solid 1 x 1 ... 4 mm ² Flexible with Insulated Ferrule 1 x 0.75 ... 2.5 mm ² Stranded 2 x 1 ... 4 mm ² Flexible 2x0.75 ... 2.5 mm ² Flexible with Ferrule 1 x 0.75 ... 2.5 mm ²
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 IP00
Connecting terminals (delivered in open position) Main poles	Flat type c/w screws and bolts

Terminal Type Main Circuit: Bars

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	3000 m
Resistance to Shock acc. to IEC 60068-2-27	Shock Direction: A 5 g Shock Direction: C2 5 g Shock Direction: B2 5 g Shock Direction: C1 5 g Shock Direction: B1 5 g
RoHS Status	Following EU Directive 2002/95/EC August 18, 2005 and amendment

Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 600 V
General Use Rating UL/CSA	(600 V AC) 400 A
Horsepower Rating UL/CSA	(208 V AC) Three Phase 100 Hp (440 ... 480 V AC) Three Phase 250 Hp (550 ... 600 V AC) Three Phase 300 Hp (220 ... 240 V AC) Three Phase 100 Hp (200 V AC) Three Phase 100 Hp

Certificates and Declarations (Document Number)

BV Certificate	09826/C0 BV
CCC Certificate	CQC_2008010304279325
CSA Certificate	306708
Declaration of Conformity - CE	2CMT2015-005436
DNV Certificate	DNV_E-12191
Environmental Information	1SFC101003D0201
GL Certificate	GL_15529-00HH
Instructions and Manuals	1SFC380003-89
LOVAG Certificate	SE-0003005
LR Certificate	LR_12-70003
RINA Certificate	ELE060313XG/001
RMRS Certificate	RMRS_12-03683-315
RoHS Information	1SFC101046D0203

Container Information

Package Level 1 Units	1 piece
Package Level 1 Width	200 mm
Package Level 1 Depth / Length	220 mm
Package Level 1 Height	280 mm
Package Level 1 Gross Weight	6.1 kg
Package Level 1 EAN	7320500214701

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
UNSPSC	39121529

Categories

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

