

PRODUCT-DETAILS

AF750-30-22-71

AF750-30-22 250-500V 50/60Hz / 250-500V DC Contactor



General Information

Extended Product Type	AF750-30-22-71
Product ID	1SFL637001R7122
EAN	7320500310632
Catalog Description	AF750-30-22 250-500V 50/60Hz / 250-500V DC Contactor
Long Description	A 3-phase Contactor suitable for various applications such as Motor starting, Isolation, Bypass and Distribution application up to max 1000 V. Operated with wide control voltage range 250-500 V, AC/DC

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Popular Downloads

Data Sheet, Technical Information	1SBC100192C0206
Instructions and Manuals	1SFC380023-en
Dimension Diagram	53540919-60

Dimensions

Product Net Width	210 mm
Product Net Depth / Length	242 mm
Product Net Height	283 mm
Product Net Weight	13.6 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 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 $q = 40\text{ °C}$ 1050 A
Rated Operational Current AC-1 (I_e)	(1000 V) 40 °C 1000 A (1000 V) 55 °C 875 A (1000 V) 70 °C 720 A (690 V) 40 °C 1050 (690 V) 55 °C 875 (690 V) 70 °C 720
Rated Operational Current AC-3 (I_e)	(415 V) 55 °C 750 A (440 V) 55 °C 750 A (500 V) 55 °C 750 A (690 V) 55 °C 650 A (1000 V) 55 °C 300 A (380 / 400 V) 55 °C 750 A (220 / 230 / 240 V) 55 °C 750
Rated Operational Power AC-3 (P_e)	(415 V) 425 kW (440 V) 450 kW (500 V) 520 kW (690 V) 600 kW (1000 V) 400 kW (380 / 400 V) 400 kW (220 / 230 / 240 V) 220 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 1000 A
Rated Short-time Withstand Current (I_{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 6400 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 1300 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 7000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 4500 A
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 440 V 7500 A cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 690 V 7000 A
Maximum Electrical Switching Frequency	(AC-1) 300 cycles per hour (AC-2 / AC-4) 60 cycles per hour

	(AC-3) 300 cycles per hour
Rated Operational Current DC-1 (I_e)	(110 V) 1-Pole, 40 °C 1050 A (110 V) 2 Poles in Series, 40 °C 1050 A (220 V) 3 Poles in Series, 40 °C 1050 A (600 V) 3 Poles in Series, 40 °C 1050 A (850 V) 3 Poles in Series, 40 °C 1050 A
Rated Operational Current DC-3 (I_e)	(110 V) 1-Pole, 40 °C 1050 A (110 V) 2 Poles in Series, 40 °C 1050 A (220 V) 3 Poles in Series, 40 °C 1050 A (600 V) 3 Poles in Series, 40 °C 1050 A (850 V) 3 Poles in Series, 40 °C 1050 A
Rated Operational Current DC-5 (I_e)	(110 V) 1-Pole, 40 °C 1050 A (110 V) 2 Poles in Series, 40 °C 1050 A (220 V) 3 Poles in Series, 40 °C 1050 A (600 V) 3 Poles in Series, 40 °C 1050 A (850 V) 3 Poles in Series, 40 °C 1050 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})	Main Circuit 8 kV
Mechanical Durability	3 million
Maximum Mechanical Switching Frequency	300 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)
Rated Control Circuit Voltage (U_c)	50 Hz 250 ... 500 V 60 Hz 250 ... 500 V DC Operation 250 ... 500 V
Coil Consumption	Holding at Max. Rated Control Circuit Voltage 50 Hz 12 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 12 V·A Holding at Max. Rated Control Circuit Voltage DC 7.5 V·A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 985 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 985 V·A Pull-in at Max. Rated Control Circuit Voltage DC 910 V·A
Operate Time	Between Coil De-energization and NC Contact Closing 50 ... 70 ms Between Coil De-energization and NO Contact Opening 53 ... 73 ms Between Coil Energization and NC Contact Opening 45 ... 115 ms Between Coil Energization and NO Contact Closing 50 ... 120 ms
Connecting Capacity Main Circuit	Bar 52 mm ² Rigid Al-Cable 300 mm ² Rigid Cu-Cable 300 mm ²
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 2.5 mm ² Flexible 2x0.75 ... 2.5 mm ² Solid 2 x 1 ... 4 mm ² Stranded 2 x 1 ... 4 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
Terminal Type	Main Circuit: Bars

Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 1000 V
General Use Rating UL/CSA	(1000 V AC) 900 A (600 V AC) 900 A
Horsepower Rating UL/CSA	(200 V AC) Three Phase 250 hp (208 V AC) Three Phase 250 hp (220 ... 240 V AC) Three Phase 300 hp (440 ... 480 V AC) Three Phase 600 hp (550 ... 600 V AC) Three Phase 700 hp

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 K40 Shock Direction: B1 5 K40 Shock Direction: B2 5 K40 Shock Direction: C1 5 K40 Shock Direction: C2 5 K40
RoHS Status	Following EU Directive 2015/863 July 22, 2019 (RoHS 3)

Certificates and Declarations (Document Number)

ABS Certificate	15-LD1408622-PDA
BV Certificate	BV_13409-C0BV
CB Certificate	SE-82863
CCC Certificate	CQC_2007010304256684
CCS Certificate	GB14T00030
CSA Certificate	306712-1
cUL Certificate	UL_20111101-E36588
Declaration of Conformity - CE	2CMT2019-005796
DNV Certificate	DNV_E-10966
DNV GL Certificate	TAE00001W1
EAC Certificate	9AKK107046A8618
Environmental Information	1SFC101005D0201 1SAC200044H0006
GL Certificate	GL_42988-02HH
Instructions and Manuals	1SFC380023-en
LOVAG Certificate	SE-0114206
LR Certificate	16-20064
PRS Certificate	TE_2092_880423_16
RINA Certificate	ELE060313XG_002
RMRS Certificate	9AKK107045A6978
RoHS Information	2CMT2019-005796
UL Listing Card	UL_E36588

Container Information

Package Level 1 Units	box 1 piece
Package Level 1 Width	280 mm
Package Level 1 Depth / Length	375 mm
Package Level 1 Height	310 mm
Package Level 1 Gross Weight	15 kg

Package Level 1 EAN

7320500310632

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
IDEA Granular Category Code (IGCC)	4755 >> Contactors

Categories

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

