

Representative Image

Alternate Catalog No. AF116-40-22-12
Catalog No. 1SFL427101R1222

Description: AF116-40-22-12 Contactor

UPC No 7320500503973

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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 48-130 V, 50/60 Hz and DC

Descriptors

Category	AF Contactors
Block Contactor Type	4-Pole Contactor

Specifications

Product Type	AF
General Use Rating UL/CSA	(600 V AC) 160 A
Object Classification Code	Q
Terminal Type	Double Clamp
Rated Control Circuit Voltage	50 Hz /60 Hz DC Operation 48 ... 130 V
Number of Main Contacts NO	4
Number of Main Contacts NC	0
Maximum Operating Voltage UL/CSA	Main Circuit 600 V
Number of Auxiliary Contacts NO	2
RoHS Status	Following EU Directive 2011/65/EU
Reference Ambient Air Temperature	Close to Contactor for Storage -40 ... +70 °C 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
Rated Operational Voltage	Main Circuit 690 V
Number of Auxiliary Contacts NC	2
Maximum Operating Altitude Permissible	3000 m
Rated Operational Current AC-1	(690 V) 40 °C 160 A (690 V) 60 °C 145 A (690 V) 70 °C 130 A
Rated Operational Power AC-3	(220 / 230 / 240 V) 30 KWT (380 / 400 V) 55 KWT (415 V) 55 KWT (440 V) 75 KWT
Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1	8 x Ie AC-3
Conventional Free-air Thermal Current	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 160 A
Rated Frequency	Main Circuit 50Hz
Rated Short-time Withstand Current	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 928 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 379 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1300 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 536 A

by ABB

Specifications

Rated Operational Current AC-3	(220 / 230 / 240 V) 55 °C 116 A (380 / 400 V) 55 °C 116 A (415 V) 55 °C 116 A (440 V) 55 °C 116 A
Rated Making Capacity AC-3 acc. to IEC 60947-4-1	10 x Ie AC-3
Maximum Electrical Switching Frequency	AC-1 300 cycles per hour
Short-Circuit Protective Devices	gG Type Fuses 200 A
Rated Insulation Voltage	acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 440 V 2000 A
Mechanical Durability	5 million
Coil Operating Limits	(acc. to IEC 60947-4-1) 0.85 x Uc Min. ... 1.1 x Uc Max. (at θ ≤ 70 °C)
Maximum Mechanical Switching Frequency	300 cycles per hour
Operate Time	Between Coil De-energization and NO Contact Opening 40 ... 70 ms Between Coil Energization and NO Contact Closing 20 ... 55 ms
Secondary Rated Impulse Withstand Voltage	Main Circuit 8 kV
Connecting Capacity Main Circuit	Flexible 2 x 10 ... 70 m² Rigid Cu-Cable 2 x 10 ... 95 m²
Coil Consumption	Holding at Max. Rated Control Circuit Voltage 50 Hz 4 V - A Holding at Max. Rated Control Circuit Voltage 60 Hz 4 V - A Holding at Max. Rated Control Circuit Voltage DC 2.5 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 170 V - A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 170 V - A Pull-in at Max. Rated Control Circuit Voltage DC 130 W
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 Capacity Auxiliary Circuit	Flexible with Ferrule 1 x 0.75 ... 2.5 m² Flexible 2x0.75 ... 2.5 m² Solid 1 x 1 ... 4 m² Stranded 1 x 1 .... 4 m²

Classifications

ETIM 4	EC000066 - Magnet contactor, AC-switching
ETIM 6.0	EC000066 - Power contactor, AC switching
ETIM 7	EC000066 - Power contactor, AC switching
IDEA Granular Category Code (IGCC)	4755 >> Contactors
ETIM 5.0	EC000066 - Magnet contactor, AC-switching

Dimensions

Product Net Weight	2.05 kg
Product Net Depth / Length	128 mm
Product Net Width	120 mm
Product Net Height	150 mm

Package Information

Package Level 1 Width	147 mm
Package Level 1 Height	155 mm
Package Level 1 Depth / Length	197 mm
Package Level 1 EAN	7320500503973
Package Level 1 Units	box 1 piece
Package Level 1 Gross Weight	2.25 kg

Ordering

Minimum Order Quantity	1
Customs Tariff Number	85364900