AF370-30-11-14

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

General Information

Extended Product Type:	AF370-30-11-14
Product ID:	1SFL607002R1411
EAN:	7320500481929
Catalog Description:	AF370-30-11-14 Contactor
Long Description:	A 3-phase Contactor suitable for various applications such as Motor startin g, Isolation, By-pass and Distribution application up to max 1000 V. Operat ed with wide control voltage range 250-500 V, 50/60 Hz and DC

Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900

Popular Downloads

Data Sheet, Technical Information:	1SFC101070D0201
Instructions and Manuals:	1SFC100008M0201

Dimensions

Product Net Width:	140.0 mm
Product Net Depth / Length:	180.0 mm
Product Net Height:	225.0 mm
Product Net Weight:	4.640 kg

Technical

Number of Main Contacts NO:	3
Number of Main Contacts NC:	0
Number of Auxiliary Contacts NO:	1
Number of Auxiliary Contacts NC:	1
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 °C 600 A
Rated Operational Current AC-1 (I_e):	(690 V) 55 °C 500 A (690 V) 40 °C 600 A (1000 V) 40 °C 400 A (1000 V) 55 °C 350 A (690 V) 70 °C 400 A (1000 V) 70 °C 290 A

Rated Operational Current AC-3 (I_e):	(1000 V) 55 °C 100 A (415 V) 55 °C 370 A (690 V) 55 °C 315 A (220 / 230 / 240 V) 55 °C 370 A (440 V) 55 °C 370 A (380 / 400 V) 55 °C 370 A (500 V) 55 °C 315 A
Rated Operational Power AC-3 (P_e):	(220 / 230 / 240 V) 110 kW (380 / 400 V) 200 kW (415 V) 200 kW (440 V) 200 kW (500 V) 250 kW (690 V) 315 kW (1000 V) 132 kW
Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1:	8 x Ie AC-3
Rated Making Capacity AC-3 acc. to IEC 60947-4-1:	10 x Ie AC-3
Short-Circuit Protective Devices:	gG Type Fuses 630 A
Rated Short-time Withstand Current (I_{cw}):	at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 1709 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 2960 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 600 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3700 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 1208 A
Maximum Breaking Capacity:	cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 440 V 5000 A cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 690 V 4000 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:	300 cycles per hour
Coil Operating Limits:	(acc. to IEC 60947-4-1) 0.85 x Uc Min. ... 1.1 x Uc Max. (at θ ≤ 70 °C) °C

Rated Control Circuit Voltage (U_c):	60 Hz 250 ... 500 V 50 Hz 250 ... 500 V DC Operation 250 ... 500 V
Coil Consumption:	Pull-in at Max. Rated Control Circuit Voltage 60 Hz 420 V·A Holding at Max. Rated Control Circuit Voltage DC 4.7 W Holding at Max. Rated Control Circuit Voltage 50 Hz 20.4 V·A Pull-in at Max. Rated Control Circuit Voltage DC 600 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 420 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 20.4 V·A
Operate Time:	Between Coil De-energization and NO Contact Opening 37 ... 47 ms Between Coil Energization and NO Contact Closing 25 ... 55 ms
Connecting Capacity Main Circuit:	Rigid Al-Cable 1 x 185 ... 240 mm² Rigid Cu-Cable 2 x 70 ... 185 mm² Flexible 2 x 70 ... 185 mm²
Connecting Capacity Auxiliary Circuit:	Solid 2 x 1 ... 4 mm² Flexible with Insulated Ferrule 2 x 0.75 ... 2.5 mm² Stranded 1 x 1 .... 4 mm² Flexible 2x0.75 ... 2.5 mm² Flexible with Ferrule 2 x 0.75 ... 2.5 mm²
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

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
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) 520 A
Horsepower Rating UL/CSA:	(208 V AC) Three Phase 125 Hp (440 ... 480 V AC) Three Phase 300 Hp (550 ... 600 V AC) Three Phase 350 Hp (220 ... 240 V AC) Three Phase 150 Hp (200 V AC) Three Phase 125 Hp

Certificates and Declarations (Document Number)

ABS Certificate:	14-LD1092198-PDA
BV Certificate:	BV_36353_A0BV

CB Certificate:	SE-89316
CCC Certificate:	CQC_2014010304676670
CCS Certificate:	GB14T00030
cUL Certificate:	20121217-E36588
Declaration of Conformity - CE:	2CMT004749
DNV Certificate:	DNV_E-14043
EAC Certificate:	EAC_RUC-SE.ME77.B.01005
Environmental Information:	2CMT004732
GL Certificate:	GL_95073-14HH
Instructions and Manuals:	1SFC100008M0201
LR Certificate:	LR_14_70011(E1)
PRS Certificate:	TE_2092_880423_16
RINA Certificate:	ELE060313XG_002
RMRS Certificate:	9AKK107045A6978
RoHS Information:	1SFC101055D0202
UL Listing Card:	UL_E36588

Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	223 mm
Package Level 1 Depth / Length:	175 mm
Package Level 1 Height:	270 mm
Package Level 1 Gross Weight:	5.31 kg
Package Level 1 EAN:	7320500481929

Classifications

Object Classification Code:	Q
E-nummer:	3210172
ETIM 4:	EC000066 - Magnet contactor, AC-switching
ETIM 5:	EC000066 - Magnet contactor, AC-switching
ETIM 6:	EC000066 - Power contactor, AC switching
UNSPSC:	39121529


1L1
3L2
5L3
ABB
AF370-30