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General Information

Extended Product Type:	AF205-30-11-14
Product ID:	1SFL527002R1411
EAN:	7320500480571
Catalog Description:	AF205-30-11-14 Contactor
Long Description:	A 3-phase Contactor suitable for various applications such as Motor starting, Isolation, By-pass and Distribution application up to max 1000 V. Operated 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
Dimension Diagram:	1SFB535001G1056

Dimensions

Product Net Width:	105.0 mm
Product Net Depth / Length:	152.0 mm
Product Net Height:	196.0 mm
Product Net Weight:	2.778 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 $q = 40\text{ °C}$ 350 A

Rated Operational Current AC-1 (I_e):	(690 V) 55 °C 300 A (690 V) 40 °C 350 A (1000 V) 40 °C 275 A (1000 V) 55 °C 250 A (690 V) 70 °C 240 A (1000 V) 70 °C 200 A
Rated Operational Current AC-3 (I_e):	(1000 V) 55 °C 100 A (220 / 230 / 240 V) 55 °C 205 A (415 V) 55 °C 205 A (690 V) 55 °C 165 A (440 V) 55 °C 205 A (380 / 400 V) 55 °C 205 A (500 V) 55 °C 165 A
Rated Operational Power AC-3 (P_e):	(220 / 230 / 240 V) 55 kW (380 / 400 V) 110 kW (415 V) 110 kW (440 V) 132 kW (500 V) 110 kW (690 V) 160 kW (1000 V) 132 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 400 A
Rated Short-time Withstand Current (I_{cw}):	at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 947 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 350 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1640 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 2050 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 670 A
Maximum Breaking Capacity:	cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 440 V 3500 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 275 A (220 V) 3 Poles in Series, 40 °C 275 A
Rated Operational Current DC-3 (I_e):	(110 V) 2 Poles in Series, 40 °C 275 A (220 V) 3 Poles in Series, 40 °C 275 A
Rated Operational Current DC-5 (I_e):	(110 V) 2 Poles in Series, 40 °C 275 A (220 V) 3 Poles in Series, 40 °C 275 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 U _c Min. ... 1.1 x U _c Max. (at $\theta \leq 70$ °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 185 V·A Holding at Max. Rated Control Circuit Voltage DC 3.9 W Holding at Max. Rated Control Circuit Voltage 50 Hz 16.1 V·A Pull-in at Max. Rated Control Circuit Voltage DC 188 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 185 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 16.1 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 95 ... 185 mm ² Flexible 2 x 50 ... 95 mm ² Rigid Cu-Cable 2 x 50 ... 120 mm ²
Connecting Capacity Auxiliary Circuit:	Solid 2 x 1 ... 4 mm ² Flexible with Insulated Ferrule 2 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
Terminal Type:	Main Circuit: Bars

Environmental

Ambient Air Temperature:	Close to Contactor Fitted with Thermal O/L Relay (0.85 ... 1.1 U _c) -25 ... +50 °C Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 U _c) -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) 300 A
Horsepower Rating UL/CSA:	(208 V AC) Three Phase 60 Hp (440 ... 480 V AC) Three Phase 150 Hp (550 ... 600 V AC) Three Phase 200 Hp (220 ... 240 V AC) Three Phase 75 Hp (200 V AC) Three Phase 60 Hp

Certificates and Declarations (Document Number)

ABS Certificate:	14-LD1092198-PDA
BV Certificate:	BV_36353_A0BV
CB Certificate:	SE-82315
CCC Certificate:	CQC_2014010304676685
CCS Certificate:	GB14T00030
cUL Certificate:	20121023-E36588
Declaration of Conformity - CE:	2CMT004613
DNV Certificate:	DNV_E-14043
EAC Certificate:	EAC_RUC-SE.ME77.B.01005
Environmental Information:	2CMT004732
GL Certificate:	GL_95072-14HH
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:	200 mm
Package Level 1 Depth / Length:	220 mm
Package Level 1 Height:	280 mm
Package Level 1 Gross Weight:	3.228 kg
Package Level 1 EAN:	7320500480571

Classifications

Object Classification Code:	Q
E-number:	3210148
ETIM 4:	EC000066 - Magnet contactor, AC-switching
ETIM 5:	EC000066 - Magnet contactor, AC-switching
ETIM 6:	EC000066 - Power contactor, AC switching
UNSPSC:	39121529



ABB AC200-30

AC-1	AC-2	AC-3	AC-4	AC-5
100	100	100	100	100
200	200	200	200	200
300	300	300	300	300
400	400	400	400	400
500	500	500	500	500
600	600	600	600	600
700	700	700	700	700
800	800	800	800	800
900	900	900	900	900
1000	1000	1000	1000	1000

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