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AF1350-30-11-70

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General Information

Extended Product Type:

AF1350-30-11-70

Product ID:

1SFL657001R7011

EAN:

7320500250143

Catalog Description:

AF1350-30-11 100-250V 50/60Hz / 100-250V DC Contactor

Long Description:

The AF1350-30-11-70 is a 3 pole - 1000 V IEC or 1000 V UL contactor with pre-mounted auxiliary contacts and Main Circuit Bars, controlling motors up to 475 kW / 400 V AC (AC-3) or 800 hp / 480 V UL and switching power circuits up to 1350 A (AC-1) or 1350 A UL general use. Thanks to the AF technology... [Show more](#)

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Minimum Order Quantity:

1 piece

Customs Tariff Number:

85364900

Popular Downloads

EPLAN Data:

[EPLAN EDZ AF1350](#)

Data Sheet, Technical Information:

[1SBC100214C0202 - Main catalog, Motor protection and control Manual motor starters, contactors and overload relays \(PDF\) - Edition 2024](#)

Data Sheet, Technical Information (Part 2):

[Contactors and Overload relays guide](#)

Instructions and Manuals:

[Operating instruction, Contactors AF1350, AF1650, AF2050](#)

CAD Dimensional Drawing:

[Information - 2D and 3D files for CAD systems](#)

Dimensions

Product Net Width:

438 mm

Product Net Depth / Length:

244 mm

Product Net Height:


392 mm

Product Net Weight:

32 kg

Dimension Diagram:

[Dimension Drawing, Contactor, AF1350, AF1650](#)

 diagram

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

Number of Poles:

3P

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 $\Theta = 40\text{ °C}$ 1350 A

Rated Operational Current AC-1 (I_e):

(1000 V) 40 °C 1350 A

(1000 V) 55 °C 1150 A

(1000 V) 70 °C 1000 A

(690 V) 40 °C 1350 A

(690 V) 55 °C 1150 A

(690 V) 70 °C 1000 A

Rated Operational Current AC-3 (I_e):

(415 V) 55 °C 860 A

(440 V) 55 °C 860 A

(500 V) 55 °C 800 A

(690 V) 55 °C 800 A

(1000 V) 55 °C 375 A

(380 / 400 V) 55 °C 860 A

(220 / 230 / 240 V) 55 °C 860 A

Rated Operational Current DC-1 (I_e):

(220 V) 3 Poles in Series, 40 °C 1350 A

(600 V) 3 Poles in Series, 40 °C 1350 A

(850 V) 3 Poles in Series, 40 °C 1350 A

Rated Operational Current DC-3 (I_e):

(220 V) 3 Poles in Series, 40 °C 1350 A

(600 V) 3 Poles in Series, 40 °C 1350 A

(850 V) 3 Poles in Series, 40 °C 1350 A

Rated Operational Current DC-5 (I_e):

(220 V) 3 Poles in Series, 40 °C 1350 A

(600 V) 3 Poles in Series, 40 °C 1350 A

(850 V) 3 Poles in Series, 40 °C 1350 A

Rated Operational Power AC-3 (P_e):

(415 V) 500 kW

(440 V) 560 kW

(500 V) 560 kW

(690 V) 800 kW

(1000 V) 560 kW

(380 / 400 V) 475 kW

(220 / 230 / 240 V) 257 kW

Rated Breaking Capacity AC-3:

8 x I_e AC-3

Rated Making Capacity AC-3:

10 x I_e AC-3

Rated Short-time Withstand Current Low Voltage (I_{cw}):

at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1600 A

at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 6000 A

at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 10000 A

at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 8000 A

at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 4500 A

Maximum Breaking Capacity:

cos φ=0.45 (cos φ=0.35 for I_e > 100 A) at 440 V 10000 A

Rated Insulation Voltage (U_i):

acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V

acc. to UL/CSA 1000 V

Rated Impulse Withstand Voltage (U_{imp}):

Main Circuit 8 kV

Maximum Electrical Switching Frequency:

(AC-1) 60 cycles per hour

(AC-2 / AC-4) 60 cycles per hour

(AC-3) 60 cycles per hour

Mechanical Durability:

0.5 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 θ ≤ 70 °C)

Rated Control Circuit Voltage (U_c):

50 Hz 100 ... 250 V

50 Hz / 60 Hz 100 ... 250 V

60 Hz 100 ... 250 V

DC Operation 100 ... 250 V

Coil Consumption:

Holding at Max. Rated Control Circuit Voltage 50 Hz 75.7 V·A

Holding at Max. Rated Control Circuit Voltage 60 Hz 75.7 V·A

Holding at Max. Rated Control Circuit Voltage DC 14.1 V·A

Holding at Max. Rated Control Circuit Voltage DC 14.1 W

Pull-in at Max. Rated Control Circuit Voltage 50 Hz 2545 V·A

Pull-in at Max. Rated Control Circuit Voltage 60 Hz 2545 V·A

Pull-in at Max. Rated Control Circuit Voltage DC 2865 V·A

Pull-in at Max. Rated Control Circuit Voltage DC 2865 W

Power Loss:

at Rated Operating Conditions per Pole 80 W

Operate Time:

Between Coil De-energization and NC Contact Closing 35 ... 55 ms

Between Coil De-energization and NO Contact Opening 35 ... 55 ms

Between Coil Energization and NC Contact Opening 50 ... 80 ms

Between Coil Energization and NO Contact Closing 50 ... 80 ms

Connecting Capacity Main Circuit:

Bar 100 mm²

Connecting Capacity Auxiliary Circuit:

Flexible with Ferrule 1x 0.75 ... 2.5 mm²

Flexible with Ferrule 2x 0.75 ... 2.5 mm²

Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm²

Flexible with Insulated Ferrule 2x 0.75 ... 2.5 mm²

Flexible 2x0.75 ... 2.5 mm²

Solid 2 x 1 ... 4 mm²

Stranded 1 x 1 ... 4 mm²

Stranded 2 x 1 4 mm²

Connecting Capacity:

Bar 100 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

Connecting Terminals (delivered in open position) Main Poles:

M 3.5 (+,-) pozidriv 2 screw with cable clamp

Recommended Screw Driver:

Main Circuit M12

Control Circuit Pozidriv 2

Control Circuit M3.5

Tightening Torque:

Cable Lug 45 N·m

Main Circuit 45 N·m

Terminal Type:

Main Circuit: Bars

Suitable for Product Class:

Block ContactorsBlock Contactors

Product Name:

Block Contactor

Technical UL/CSA

Maximum Operating Voltage UL/CSA:

Main Circuit 1000 V

General Use Rating UL/CSA:

(1000 V AC) 1350 A

(600 V AC) 1350 A

Horsepower Rating UL/CSA:

(220 ... 240 V AC) Three Phase 400 Hp

(220 ... 240 V AC) Three Phase 400 hp

(440 ... 480 V AC) Three Phase 800 Hp

(440 ... 480 V AC) Three Phase 800 hp

(550 ... 600 V AC) Three Phase 1000 Hp

(550 ... 600 V AC) Three Phase 1000 hp

Full Load Amps Motor Use:

(440 ... 480 V AC) Three Phase 954 A

(550 ... 600 V AC) Three Phase 944 A

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

Operation -40 ... 70 °C

Storage -40 ... +70 °C

Maximum Operating Altitude Permissible:

Without Derating 3000 m

Material Compliance

Conflict Minerals Reporting Template (CMRT):

REACH Declaration:

[REACH - Letter of Confirmation for block contactors, contactor relays, installation contactors, mini contactors, mini contactor relays, thermal overload relays, electronic overload relays and related accessories](#)

RoHS Declaration:

[RoHS II declaration for block contactors, installation contactors, mini contactors, mini contactor relays, thermal overload relays, electronic overload relays and related accessories](#)

RoHS Information:

Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

Toxic Substances Control Act - TSCA:

[Toxic Substances Control Act \(TSCA\) declaration for Contactors](#)

WEEE B2C / B2B:

Business To Business

WEEE Category:

5. Small Equipment (No External Dimension More Than 50 cm)

ABB EcoSolutions

ABB EcoSolutions:

Yes

ABB Site Meeting Group Waste To Landfill Target:

UL 2799 Zero Waste To Landfill Validation available

End Of Life Disassembling Instructions:

[End-of-life instruction - AF1350\(B\)\(T\), AF1650\(B\)\(T\), AF1650N8, AF2050\(B\)\(T\), AF2650\(B\)\(T\), AF2850\(B\)\(T\)](#)

Environmental Product Declaration - EPD:

[Environmental product declaration AF1350\(T\), AF1650\(T\)\(N\), AF2050\(T\), AF2650\(T\), AF2850 \(SE\)](#)
[Environmental product declaration AF1350, AF1650, AF2050, AF2650 \(CN\) Contactors](#)

Extended Product Lifetime:

Product Durability

Improved Energy Efficiency for Customers:

Product Efficiency - Product considered more energy-efficient compared to similar product on market or older products from the same line

Recyclability Rate of the Product acc. to EN45555:

Design for Closing Resource Loops - Standard EN45555 - 71.3 %

Certificates and Declarations

ABS Certificate:

[ABS Design approval Contactor, AF400...AF2850 \(Sweden\)](#)

BV Certificate:

[BV Certificate, Contactor, AF400 ... AF2850](#)

CB Certificate:

[SEMKO SE-74013](#)

CCS Certificate:

[CCS Certificate, Contactor, AF116 to AF2850 \(Sweden\)](#)

CQC Certificate:

[CQC Certificate, AC Contactor, AF1350-30-**-*, AF1650-30-**-*, AF2050-30-**-*, AF1350T-30-**-*, AF1650T-30-**-*, AF2050T-30-**-*, Made in Sweden](#)
[CQC Certificate, Contactor, AF1350, AF1650, AF2050, Made in China](#)

Declaration of Conformity - CCC:

[CCC Declaration of Conformity, AC Contactor, AF1350-30-**-*, AF1650-30-**-*, AF2050-30-**-*, AF1350T-30-**-*, AF1650T-30-**-*, AF2050T-30-**-*, Made in Sweden](#)
[CCC Declaration of Conformity, Contactor, AF1350, AF1650, AF2050, Made in China](#)

Declaration of Conformity - CE:

[CE Declaration of Conformity - Contactor - AF400...AF2850](#)

Declaration of Conformity - UKCA:

[UK Declaration of Conformity - Contactors >100A](#)

DNV GL Certificate:

[DNV Certificate, Contactor, AF400...AF2850](#)

GL Certificate:

[GL 20263-04HH](#)

LOVAG Certificate:

[SE-202726](#)

LR Certificate:

[Lloyds register Certificate, Contactor, AF116...AF2850](#)

PRS Certificate:

[PRS Certificate - AF116...AF1650](#)

RINA Certificate:

[RINA Certificate, AF95, AF110, AF145, AF185, AF210, AF260, AF300, AF400, AF460, AF580, AF750, AF1250, AF1350, AF1650, AF2050, AF2650, AF116, AF140, AF146, AF190, AF205, AF265, AF305, AF370](#)

RMRS Certificate:

[9AKK107045A6978](#)

UL Certificate:

[cULus Certificate, Contactor, AF1350, AF1650, AF2050 \(NLDX\)](#)

UL Listing Card:

[UL E73397](#)

Container Information

Package Level 1 Units:

box 1 piece

Package Level 1 Width:

555 mm

Package Level 1 Depth / Length:

365 mm

Package Level 1 Height:

500 mm

Package Level 1 Gross Weight:

34 kg

Package Level 1 EAN:

7320500250143

External Classifications and Standards

Object Classification Code:

Q

ETIM 7:

EC000066 - Power contactor, AC switching

ETIM 8:

EC000066 - Power contactor, AC switching

ETIM 9:

EC000066 - Power contactor, AC switching

eClass:

UNSPSC:

39121529

IDEA Granular Category Code (IGCC):

4758 >> Iec Contactors

E-Number (Finland):

3709257

E-Number (Norway):

4115388

E-Number (Sweden):

4115388

Accessories**Filters**

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Identifier	Description	Type	Qty	Unit Of Measure	Actions
1SFN076407R1000	LW1250 Terminal Enlargement	LW1250	1	piece	
1SFN165503R9215	AF1250 Cover Replacement Part	Spare Part Cover AF1250	1	piece	
1SFN165503R9245	AF1250 Base Replacement Part	Spare Part Bottom AF1250	1	piece	
1SFN166403R1000	ZL1250 Main Contact Kit	ZL1250	1	piece	
1SFN165503R9216	AF1350 Cover Replacement Part	Spare Part Cover AF1350	1	piece	

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