PRODUCT-DETAILS

# AF140-30-11B-33

# AF140-30-11B-33 Contactor



## General Information

| | |
|---|---|
| Extended Product Type | AF140-30-11B-33 |
| Product ID | 1SFL447002R3311 |
| EAN | 7320500480878 |
| Catalog Description | AF140-30-11B-33 Contactor |
| Long Description | The AF140-30-11B-33 is a 3 pole - 690 V IEC or 600 V UL contactor with pre-mounted auxiliary contacts and Main Circuit Bars, controlling motors up to 75 kW / 400 V AC (AC-3) or 100 hp / 480 V UL and switching power circuits up to 200 A (AC-1) or 200 A UL general use. Thanks to the AF technology, the contactor has a wide control voltage range (100-250 V 50/60 Hz and DC), managing large control voltage variations, reducing panel energy consumptions and ensuring distinct operations in unstable networks. Furthermore, surge protection is built-in, offering a compact solution. AF contactors have a block type design, can be easily extended with add-on auxiliary contact blocks and an additional wide range of accessories. |

## Ordering

| | |
|---|---|
| Minimum Order Quantity | 1 piece |
| Customs Tariff Number | 85364900 |

## Popular Downloads

© 2025 ABB. All rights reserved.

| | |
|---|---|
| EPLAN Data | 9AAC174539_EPLAN |
| Data Sheet, Technical Information | 1SBC100214C0202 |
| Data Sheet, Technical Information (Part 2) | 1SAC200017M0002 |
| Instructions and Manuals | 1SFC100003M0201 |
| CAD Dimensional Drawing | 2CDC001079B0201 |

## Dimensions

| | |
|---|---|
| Product Net Width | 90 mm |
| Product Net Depth / Length | 142.5 mm |
| Product Net Height | 150 mm |
| Product Net Weight | 1.3 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 |
| Number of Poles | 3P |
| Rated Operational Voltage | Main Circuit 690 V |
| Rated Frequency (f) | Main Circuit 60 Hz |
| Conventional Free-air Thermal Current ($I_{th}$) | acc. to IEC 60947-4-1, Open Contactors Θ = 40 °C 200 A |
| Rated Operational Current AC-1 ($I_e$) | (690 V) 40 °C 200 A |
| Rated Operational Current AC-3 ($I_e$) | (415 V) 55 °C 140 A<br>(440 V) 55 °C 140 A<br>(500 V) 55 °C 80 A<br>(690 V) 55 °C 80 A<br>(380 / 400 V) 55 °C 140 A<br>(220 / 230 / 240 V) 55 °C 140 A |
| Rated Operational Current AC-3e ($I_e$) | (415 V) 60 °C 140 A<br>(440 V) 60 °C 140 A<br>(500 V) 60 °C 130 A<br>(690 V) 60 °C 80 A<br>(380 / 400 V) 60 °C 140 A<br>(220 / 230 / 240 V) 60 °C 140 A |
| Rated Operational Power AC-3 ($P_e$) | (415 V) 75 kW<br>(440 V) 90 kW<br>(500 V) 90 kW<br>(690 V) 75 kW<br>(380 / 400 V) 75 kW<br>(220 / 230 / 240 V) 37 kW |
| Rated Operational Power AC-3e ($P_e$) | (415 V) 75 kW<br>(440 V) 90 kW<br>(500 V) 90 kW<br>(690 V) 75 kW<br>(380 / 400 V) 75 kW<br>(220 / 230 / 240 V) 37 kW |
| Rated Breaking Capacity AC-3 | 8 x Ie AC-3 |
| Rated Breaking Capacity AC-3e | 8.5 x Ie AC-3e |
| Rated Making Capacity AC-3 | 10 x Ie AC-3 |
| Rated Making Capacity AC-3e | 12 x Ie AC-3e |

© 2025 ABB. All rights reserved.

| | |
|---|---|
| Short-Circuit Protective Devices | gG Type Fuses 315 A |
| Rated Short-time Withstand Current Low Voltage ($I_{cw}$) | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1168 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 200 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 477 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1460 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 674 A |
| Rated Insulation Voltage ($U_i$) | acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V<br>acc. to UL/CSA 600 V |
| Rated Impulse Withstand Voltage ($U_{imp}$) | 8 kV |
| Maximum Electrical Switching Frequency | (AC-1) 300 cycles per hour<br>(AC-2 / AC-4) 150 cycles per hour<br>(AC-3) 300 cycles per hour |
| Mechanical Durability | 5 million |
| Maximum Mechanical Switching Frequency | 300 cycles per hour |
| Coil Operating Limits | (acc. to IEC 60947-4-1) Uc (at θ ≤ 70 °C) |
| Rated Control Circuit Voltage ($U_c$) | 50 Hz 100 ... 250 V<br>60 Hz 100 ... 250 V<br>DC Operation 100 ... 250 V |
| Coil Consumption | Holding at Max. Rated Control Circuit Voltage 50 Hz 6 V·A<br>Holding at Max. Rated Control Circuit Voltage 60 Hz 6 V·A<br>Pull-in at Max. Rated Control Circuit Voltage 50 Hz 130 V·A<br>Pull-in at Max. Rated Control Circuit Voltage 60 Hz 130 V·A<br>Pull-in at Max. Rated Control Circuit Voltage DC 135 W |
| Power Loss | at Rated Operating Conditions per Pole 9 W |
| Operate Time | Between Coil De-energization and NO Contact Opening 37 ... 47 ms<br>Between Coil Energization and NO Contact Closing 25 ... 55 ms |
| Degree of Protection | acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP40 |
| Terminal Type | Main Circuit: Bars |
| Product Name | Block Contactor |

## Technical UL/CSA

| | |
|---|---|
| NEMA Size | 4 |
| Continuous Current Rating NEMA | 135 A |
| Horsepower Rating NEMA | (200 V AC) Three Phase 40 Hp<br>(230 V AC) Three Phase 50 Hp<br>(460 V AC) Three Phase 100 Hp<br>(575 V AC) Three Phase 100 Hp |
| Horsepower Rating UL/CSA | (200 ... 208 V AC) Three Phase 15 Hp<br>(200 V AC) Three Phase 40 hp<br>(208 V AC) Three Phase 40 hp<br>(220 ... 240 V AC) Three Phase 20 Hp<br>(220 ... 240 V AC) Three Phase 50 hp<br>(440 ... 480 V AC) Three Phase 40 Hp<br>(440 ... 480 V AC) Three Phase 100 hp<br>(550 ... 600 V AC) Three Phase 50 Hp<br>(550 ... 600 V AC) Three Phase 125 hp |

## Environmental

| | |
|---|---|
| Ambient Air Temperature | Close to Contactor Fitted with Thermal O/L Relay (0.85 ... 1.1 Uc) -25 ... 55 °C<br>Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 Uc) -40 ... 70 °C<br>Close to Contactor for Storage -40 ... 70 °C |
| Maximum Operating Altitude Permissible | Without Derating 3000 m |

## Material Compliance

| | |
|---|---|
| Conflict Minerals Reporting Template (CMRT) | 9AKK108467A5658 |

© 2025 ABB. All rights reserved.

| | |
|---|---|
| REACH Declaration | 2CMT2021-006202 |
| RoHS Declaration | 2CMT2021-006277 |
| RoHS Information | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| Toxic Substances Control Act - TSCA | 2CMT2023-006525 |
| 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 | Non-hazardous waste is sent to a landfill, where there is no alternative option available within 100km of a facility |
| End Of Life Disassembling Instructions | 1SFC100112M0001 |
| Environmental Product Declaration - EPD | 1SFC100092D0201 |
| Improved Energy Efficiency for Customers | Product Efficiency - Product requires less energy to operate 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 - 87.8 % |
| Sustainable Material Content in Product (wt. %) | Recycled Metal - 37 % |

## Certificates and Declarations

| | |
|---|---|
| A2L Certificate - UL | 9AKK108468A6693 |
| ABS Certificate | 14-LD1092198-PDA |
| BV Certificate | BV_36353_A0BV |
| CB Certificate | SEMKO_SE-70479M1 |
| CCS Certificate | GB14T00030 |
| CQC Certificate | CQC2013010304604055 |
| Declaration of Conformity - CCC | 2020980304001304 |
| Declaration of Conformity - CE | 2CMT2015-005439 |
| Declaration of Conformity - UKCA | 2CMT2020-006118 |
| DNV Certificate | DNV_E-14043 |
| DNV GL Certificate | DNV_E-14043 |
| EAC Certificate | 9AKK107046A8618 |
| GL Certificate | DNV_E-14043 |
| LR Certificate | LR_14_70011(E1) |
| PRS Certificate | TE_2092_880423_16 |
| RINA Certificate | ELE060313XG_002 |
| RMRS Certificate | 9AKK107045A6978 |
| UL Certificate | 20120925-E36588 |
| UL Listing Card | UL_E36588 |

## Container Information

| | |
|---|---|
| Package Level 1 Units | box 1 piece |
| Package Level 1 Width | 207 mm |
| Package Level 1 Depth / Length | 216 mm |
| Package Level 1 Height | 150 mm |
| Package Level 1 Gross Weight | 1.5 kg |
| Package Level 1 EAN | 7320500480878 |

© 2025 ABB. All rights reserved.

## 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 | V11.0 : 27371003 |
| UNSPSC | 39121529 |
| IDEA Granular Category Code (IGCC) | 4758 >> Iec Contactors |
| E-Number (Sweden) | 3210531 |

## Categories

Low Voltage Products and Systems → Control Products → Contactors → Block Contactors → AF Contactors → AF140



© 2025 ABB. All rights reserved.