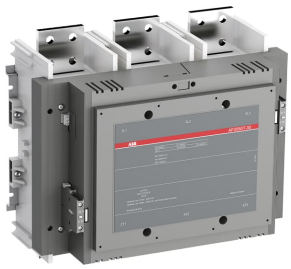
PRODUCT-DETAILS

# AF2050T-30-11 230-240V 50/60Hz

# AF2050T-30-11 230-240V 50/60Hz Contactor



## General Information

| | |
|---|---|
| Extended Product Type | AF2050T-30-11 230-240V 50/60Hz |
| Product ID | 1SFL707001R9101 |
| EAN | 7320500382066 |
| Catalog Description | AF2050T-30-11 230-240V 50/60Hz Contactor |
| Long Description | The AF2050T-30-11 230-240V 50/60Hz is a 3 pole - 1000 V IEC or 1000 V UL contactor with pre-mounted auxiliary contacts and Main Circuit Bars, switching power circuits up to 2050 A (AC-1) or 2100 A UL general use. Thanks to the AF technology, the contactor has a wide control voltage range (230-240 V 50/60 Hz), 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

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| | |
|---|---|
| Data Sheet, Technical Information | 1SBC100192C0206 |
| Instructions and Manuals | 1SFC101002M5501 |
| CAD Dimensional Drawing | 2CDC001079B0201 |
| Dimension Diagram | 53540930-7 |

## Dimensions

| | |
|---|---|
| Product Net Width | 438 mm |
| Product Net Depth / Length | 244 mm |
| Product Net Height | 392 mm |
| Product Net Weight | 33 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 Θ = 40 °C 2050 A |
| Rated Operational Current AC-1 ($I_e$) | (1000 V) 40 °C 2050 A<br>(1000 V) 55 °C 1750 A<br>(1000 V) 70 °C 1500 A<br>(690 V) 40 °C 2050 A<br>(690 V) 55 °C 1750 A<br>(690 V) 70 °C 1500 A |
| Rated Operational Current AC-3 ($I_e$) | (415 V) 55 °C 1060 A<br>(440 V) 55 °C 1060 A<br>(500 V) 55 °C 970 A<br>(690 V) 55 °C 970 A<br>(1000 V) 55 °C 425 A<br>(380 / 400 V) 55 °C 1060 A<br>(220 / 230 / 240 V) 55 °C 1060 A |
| Rated Operational Power AC-3 ($P_e$) | (415 V) 630 kW<br>(440 V) 710 kW<br>(690 V) 1000 kW<br>(1000 V) 630 kW |
| Rated Breaking Capacity AC-3 | 8 x Ie AC-3 |
| Rated Making Capacity AC-3 | 10 x Ie 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 10000 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 2200 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 5500 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 12000 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 7500 A |
| Maximum Breaking Capacity | cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 440 V 12000 A |
| Maximum Electrical Switching Frequency | (AC-1) 60 cycles per hour |
| Rated Operational Current DC-1 ($I_e$) | (220 V) 3 Poles in Series, 40 °C 2050 A<br>(600 V) 3 Poles in Series, 40 °C 2050 A<br>(850 V) 3 Poles in Series, 40 °C 2050 A |
| Rated Insulation Voltage ($U_i$) | acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V<br>acc. to UL/CSA 1000 V |
| Rated Impulse Withstand Voltage ($U_{imp}$) | Main Circuit 8 kV |

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| | |
|---|---|
| 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 Uc Min. ... 1.1 x Uc Max. (at θ ≤ 70 °C) |
| Rated Control Circuit Voltage ($U_c$) | 50 Hz 230 ... 240 V<br>60 Hz 230 ... 240 V<br>DC Operation 230 ... 240 V |
| Coil Consumption | Holding at Max. Rated Control Circuit Voltage 50 Hz 48 V·A<br>Holding at Max. Rated Control Circuit Voltage 60 Hz 48 V·A<br>Holding at Max. Rated Control Circuit Voltage DC 20.5 V·A<br>Pull-in at Max. Rated Control Circuit Voltage 50 Hz 2450 V·A<br>Pull-in at Max. Rated Control Circuit Voltage 60 Hz 2450 V·A<br>Pull-in at Max. Rated Control Circuit Voltage DC 2290 V·A |
| Operate Time | Between Coil De-energization and NC Contact Closing 35 ... 55 ms<br>Between Coil De-energization and NO Contact Opening 35 ... 55 ms<br>Between Coil Energization and NC Contact Opening 50 ... 80 ms<br>Between Coil Energization and NO Contact Closing 50 ... 80 ms |
| Connecting Capacity Main Circuit | Bar 100 mm² |
| Connecting Capacity Auxiliary Circuit | Flexible with Ferrule 2x 0.75 ... 2.5 mm²<br>Flexible with Insulated Ferrule 2x 0.75 ... 2.5 mm²<br>Flexible 2x0.75 ... 2.5 mm²<br>Solid 2 x 1 ... 4 mm²<br>Stranded 2 x 1 .... 4 mm² |
| Degree of Protection | acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20<br>acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP00 |
| Terminal Type | Main Circuit: Bars |

## Technical UL/CSA

| | |
|---|---|
| Maximum Operating Voltage UL/CSA | Main Circuit 600 V |
| General Use Rating UL/CSA | (1000 V AC) 2100 A<br>(600 V AC) 2100 A |

## Environmental

| | |
|---|---|
| Ambient Air Temperature | Close to Contactor Fitted with Thermal O/L Relay (0.85 ... 1.1 Uc) -25 ... 50 °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 |
| REACH Declaration | 2CMT2021-006202 |
| RoHS Information | 2CMT2021-006277 |
| RoHS Status | 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) |

## Certificates and Declarations

| | |
|---|---|
| ABS Certificate | 15-LD1408622-PDA |
| BV Certificate | BV_13409-C0BV |
| CB Certificate | SEMKO_SE-74013 |
| CCS Certificate | GB14T00030 |
| CQC Certificate | CQC2003010304101933 |

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| | |
|---|---|
| Declaration of Conformity - CCC | 2020980304001303 |
| Declaration of Conformity - CE | 2CMT2019-005796 |
| Declaration of Conformity - UKCA | 2CMT2020-006118 |
| EAC Certificate | 9AKK107046A8618 |
| LR Certificate | 16-20064 |
| RINA Certificate | ELE060313XG_002 |
| RMRS Certificate | 9AKK107045A6978 |
| UL Certificate | UL_20130904-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 | 35 kg |
| Package Level 1 EAN | 7320500382066 |

## Classifications

| | |
|---|---|
| Object Classification Code | Q |
| ETIM 4 | EC000066 - Magnet contactor, AC-switching |
| ETIM 5 | EC000066 - Magnet contactor, AC-switching |
| ETIM 6 | EC000066 - Power contactor, AC switching |
| ETIM 7 | EC000066 - Power contactor, AC switching |
| ETIM 8 | EC000066 - Power contactor, AC switching |
| eClass | V11.0 : 27371003 |
| UNSPSC | 39121529 |
| IDEA Granular Category Code (IGCC) | 4758 >> Iec Contactors |

## Accessories

| Identifier | Description | Type | Quantity | Unit Of Measure |
|---|---|---|---|---|
| 1SFN035203R1000 | VM205/265 Mechanical Interlock Unit | VM205/265 | 1 | piece |
| 1SFN074807R1000 | LW205 Terminal Enlargement | LW205 | 1 | piece |
| 1SFN074807R2000 | LW205-40 Terminal Enlargement | LW205-40 | 1 | piece |
| 1SFN074810R1000 | LX205 Terminal Extension | LX205 | 1 | piece |
| 1SFN074811R1000 | LL205-30 Connection Socket | LL205-30 | 1 | piece |
| 1SFN074811R2000 | LL205-40 Connection Socket | LL205-40 | 1 | piece |
| 1SFN084806R1000 | BEA205/XT4 Connection Set | BEA205/XT4 | 1 | piece |
| 1SFN084806R1001 | BEA205/T4 Connection Set | BEA205/T4 | 1 | piece |
| 1SFN084811R1000 | BER205-4 Connection Set | BER205-4 | 1 | piece |
| 1SFN084814R1000 | BEP205-30 Connection Set | BEP205-30 | 1 | piece |
| 1SFN084814R2000 | BEP205-40 Connection Set | BEP205-40 | 1 | piece |
| 1SFN085213R1000 | BEY205-4 Connection Set | BEY205-4 | 1 | piece |
| 1SFN124801R1000 | LT205-30C Terminal Shroud | LT205-30C | 1 | piece |
| 1SFN124801R2000 | LT205-40C Terminal Shroud | LT205-40C | 1 | piece |
| 1SFN124803R1000 | LT205-30L Terminal Shroud | LT205-30L | 1 | piece |
| 1SFN124803R2000 | LT205-40L Terminal Shroud | LT205-40L | 1 | piece |
| 1SFN124804R1000 | LT205-30Y Terminal Shroud | LT205-30Y | 1 | piece |
| 1SFN165503R9220 | AF2050 Cover Replacement Part | Spare Part Cover AF2050 | 1 | piece |

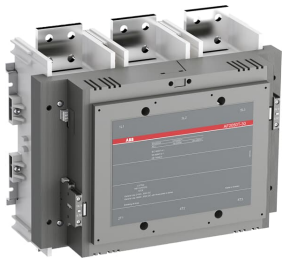
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| | | | | |
|---|---|---|---|---|
| 1SFN165503R9221 | AF2050T Cover Replacement Part | Spare Part Cover AF2050T | 1 | piece |
| 1SFN165503R9248 | AF2050 Base Replacement Part | Spare Part Bottom AF2050 | 1 | piece |
| 1SFN165503R9252 | AF2050 Base Replacement Part | Spare Part Bottom AF2050 | 1 | piece |
| 1SFN167003R1000 | ZL2050 Main Contact Kit | ZL2050 | 1 | piece |
| 1SFN167003R1001 | ZL2050-1 Main Contact Kit | ZL2050-1 | 1 | piece |
| 1SFN075703R1000 | LY460 Connecting Strip | LY460 | 1 | piece |
| 1SFN075707R1000 | LW460 Terminal Enlargement | LW460 | 1 | piece |
| 1SFN075710R1000 | LX460 Terminal Extension | LX460 | 1 | piece |
| 1SFN075716R1000 | LE460 Mounting Kit | LE460 | 1 | piece |
| 1SFN085503R9100 | BED400-9100 Connection Set | BED400-9100 | 1 | piece |
| 1SFN085503R9105 | BED400-9105 Connection Set | BED400-9105 | 1 | piece |
| 1SFN085701R1000 | BEM460-30 Connection Set | BEM460-30 | 1 | piece |
| 1SFN085703R1000 | BED460 Connection Set | BED460 | 1 | piece |
| 1SFN085703R9100 | BED460-9100 Connection Set | BED460-9100 | 1 | piece |
| 1SFN085703R9101 | BED400-9101 Connection Set | BED400-9101 | 1 | piece |
| 1SFN085703R9102 | BED460U Connection Set | BED460U | 1 | piece |
| 1SFN085704R1000 | BES460-30 Connection Set | BES460-30 | 1 | piece |
| 1SFN085706R1000 | BEA400/S5 Connection Set | BEA400/S5 | 1 | piece |
| 1SFN085706R1002 | BEA400D/S5 Connection Set | BEA400D/S5 | 1 | piece |
| 1SFN085707R1000 | BEA400H/S5 Connection Set | BEA400H/S5 | 1 | piece |
| 1SFN085708R1000 | BEF460/OESA400 Connection Set | BEF460/OESA 400 | 1 | piece |
| 1SFN085709R1000 | BEF460H/OESA400 Connection Set | BEF460H/OES A400 | 1 | piece |
| 1SFN085907R1000 | BEA460H/S6 Connection Set | BEA460H/S6 | 1 | piece |
| 1SFN125701R1000 | LT460-AC Terminal shroud | LT460-AC | 1 | piece |
| 1SFN125703R1000 | LT460-AL Terminal shroud | LT460-AL | 1 | piece |
| 1SFN155770R6906 | ZAF460 48-130V Operating Coil | ZAF460 | 1 | piece |
| 1SFN155770R7006 | ZAF460 100-250V Operating Coil | ZAF460 | 1 | piece |
| 1SFN155770R7106 | ZAF460 250-500V Operating Coil | ZAF460 | 1 | piece |
| 1SFN165503R9111 | AF460 Base Replacement Kit | REPLACEMEN T KIT AF460 Bottom part | 1 | piece |
| 1SFN165503R9241 | AF400/460 Base Replacement Part | Spare Part Bottom AF400/460 | 1 | piece |
| 1SFN095700R1000 | PR460-1 Adapter Plate | PR460-1 | 1 | piece |
| 1SFN095700R1001 | PR460-2 Adapter Plate | PR460-2 | 1 | piece |

## Categories

Low Voltage Products and Systems → Control Products → Contactors → Block Contactors → AF Contactors → AF2050

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