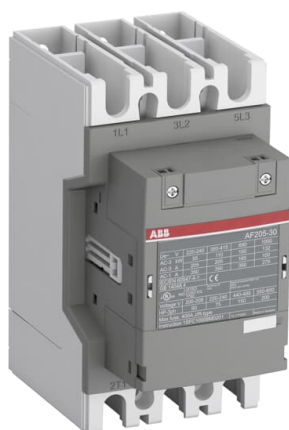


PRODUCT-DETAILS

AF205-30-00-13

AF205-30-00-13 Contactor



General Information

| | |
|-----------------------|--|
| Extended Product Type | AF205-30-00-13 |
| Product ID | 1SFL527002R1300 |
| EAN | 7320500480526 |
| Catalog Description | AF205-30-00-13 Contactor |
| Long Description | A 3-phase Contactor suitable for various applications such as Motor starting, Isolation, Bypass and Distribution application up to max 1000 V. Operated with wide control voltage range 100-250 V, 50/60 Hz and DC |

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 |
| UNSPSC | 39121529 |
| IDEA Granular Category Code (IGCC) | 4755 >> Contactors |
| E-Number (Norway) | 3210138 |
| E-Number (Sweden) | 3210138 |

Container Information

| | |
|--------------------------------|---------------|
| Package Level 1 Units | box 1 piece |
| Package Level 1 Width | 160 mm |
| Package Level 1 Depth / Length | 258 mm |
| Package Level 1 Height | 235 mm |
| Package Level 1 Gross Weight | 3 kg |
| Package Level 1 EAN | 7320500480526 |

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 | 2CMT2015-005439 |
| DNV Certificate | DNV_E-14043 |
| DNV GL Certificate | DNV_E-14043 |
| EAC Certificate | 9AKK107046A8618 |
| Environmental Information | 2CMT004732 |
| GL Certificate | GL_95072-14HH |
| Instructions and Manuals | 1SFC100008M0201 |
| KC Certificate | 9AKK107046A9912 |
| LR Certificate | LR_14_70011(E1) |
| PRS Certificate | TE_2092_880423_16 |
| RINA Certificate | ELE060313XG_002 |
| RMRS Certificate | 9AKK107045A6978 |
| RoHS Information | 2CMT2015-005439 |
| UL Listing Card | UL_E36588 |

Technical UL/CSA

| | |
|----------------------------------|--|
| Maximum Operating Voltage UL/CSA | Main Circuit 1000 V |
| General Use Rating UL/CSA | (600 V AC) 300 A |
| Horsepower Rating UL/CSA | (200 V AC) Three Phase 60 hp (208 V AC) Three Phase 60 hp (220 ... 240 V AC) Three Phase 75 hp (440 ... 480 V AC) Three Phase 150 hp (550 ... 600 V AC) Three Phase 200 hp |

Environmental

Ambient Air Temperature

Close to Contactor for Storage -40 ... +70 °C

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

Maximum Operating Altitude Permissible 3000 m

RoHS Status Following EU Directive 2015/863 July 22, 2019 (RoHS 3)

Technical

| | |
|---|--|
| Number of Main Contacts NO | 3 |
| Number of Main Contacts NC | 0 |
| Number of Auxiliary Contacts NO | 0 |
| Number of Auxiliary Contacts NC | 0 |
| 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 350 A |
| Rated Operational Current AC-1 (I_e) | (1000 V) 40 °C 275 A (1000 V) 55 °C 250 A (1000 V) 60 °C 250 A (1000 V) 70 °C 200 A (690 V) 40 °C 350 A (690 V) 55 °C 300 A (690 V) 70 °C 240 A |
| Rated Operational Current AC-3 (I_e) | (1000 V) 55 °C 100 A (220 / 230 / 240 V) 55 °C 205 A (380 / 400 V) 55 °C 205 A (415 V) 55 °C 205 A (440 V) 55 °C 205 A (500 V) 55 °C 186 A (690 V) 55 °C 165 A |
| Rated Operational Power AC-3 (P_e) | (1000 V) 132 (220 / 230 / 240 V) 55 kW (380 / 400 V) 110 kW (415 V) 110 kW (440 V) 132 kW (500 V) 132 kW (690 V) 160 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 10 s 1640 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 1 min 670 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 30 s 947 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-1 300 cycles per hour AC-2 / AC-4 150 cycles per hour AC-3 300 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) |
| Rated Control Circuit Voltage (U_c) | 50 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 7 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 7 V·A Holding at Max. Rated Control Circuit Voltage DC 2.5 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 220 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 220 V·A Pull-in at Max. Rated Control Circuit Voltage DC 190 W |
| 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 | Flexible 2 x 50 ... 95 m ² Rigid Al-Cable 1 x 95 ... 185 m ² Rigid Cu-Cable 2 x 50 ... 120 m ² |
| Connecting Capacity Auxiliary Circuit | Flexible with Ferrule 2x 0.75 ... 2.5 Flexible with Insulated Ferrule 2x 0.75 ... 2.5 Flexible 2x0.75 ... 2.5 m ² Solid 2 x 1 ... 4 m ² Stranded 1 x 1 ... 4 m 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 |

Dimensions

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|-------------------------------|--------|
| Product Net Width | 105 mm |
| Product Net Depth / Length | 152 mm |
| Product Net Height | 196 mm |
| Product Net Weight | 2.4 kg |

Popular Downloads

| | |
|--------------------------------------|-----------------|
| Data Sheet, Technical Information | 1SBC100192C0206 |
| Instructions and Manuals | 1SFC100008M0201 |
| Dimension Diagram | 1SFB535001G1056 |

Ordering

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

Categories

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

