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 PRODUCT-DETAILS

# AFC40-30-00-88

## AFC40-30-00-88 230-240V50Hz 240-260V60Hz Contactor




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**General Information**

|                       |   |
|-----------------------|---|
| Extended Product Type | AFC40-30-00-88  |
| Product ID            | 1SBL341001R8800   |
| EAN                   | 3471523018815   |
| Catalog Description   | AFC40-30-00-88 230-240V50Hz 240-260V60Hz Contactor  |
| Long Description      | The AFC40-30-00-88 is a 3-pole - 690 V IEC or 600 V UL contactor with Screw terminals, mainly controlling power circuits up to 18.5 kW / 400 V AC (AC-3) or 30 hp / 480 V AC UL and 70 A (AC-1) or 60 A UL general use. Within the AF platform, AFC contactors offer an optimized operating time for AC controlled applications with electromagnetic coil (control voltage : 230 ... 240 V AC 50 Hz / 240 ... 260 V AC 60 Hz). AFC contactors have a block type design and can be easily extended with add-on auxiliary contact blocks and a wide <u>range of additional accessories.</u> |

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**Ordering**

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

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**Popular Downloads**

|                       |                 |
|-----------------------|-----------------|
| Data Sheet, Technical | 1SBC100219C0201 |
|-----------------------|-----------------|

Information

|                                   |                 |
|-----------------------------------|-----------------|
| Instructions and Manuals          | 1SBC101036M6801 |
| Instructions and Manuals (Part 2) | 1SAC200017M0002 |
| CAD Dimensional Drawing           | 2CDC001079B0201 |

**Dimensions**

|                            |          |
|----------------------------|----------|
| Product Net Width          | 55 mm    |
| Product Net Depth / Length | 119.5 mm |
| Product Net Height         | 111 mm   |
| Product Net Weight         | 0.98 kg  |

**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   |
| Number of Poles  | 3P  |
| Standards  | IEC/EN 60947-1, IEC/EN 60947-4-1, UL 60947-4-1, CSA C22.2 No. 60947-4-1, UL 60335-2-40 LZGH2 A2L  |
| Rated Operational Voltage                                | Main Circuit 690 V  |
| Conventional Free-air Thermal Current (I <sub>th</sub> ) | acc. to IEC 60947-4-1, Open Contactors Θ = 40 °C 105 A  |
| Rated Operational Current AC-1 (I <sub>e</sub> )         | (690 V) 40 °C 70 A<br>(690 V) 60 °C 60 A<br>(690 V) 70 °C 50 A  |
| Rated Operational Current AC-3 (I <sub>e</sub> )         | (415 V) 60 °C 40 A<br>(440 V) 60 °C 40 A<br>(500 V) 60 °C 35 A<br>(690 V) 60 °C 25 A<br>(380 / 400 V) 60 °C 40 A<br>(220 / 230 / 240 V) 60 °C 40 A  |
| Rated Operational Current AC-3e (I <sub>e</sub> )        | (415 V) 60 °C 40 A<br>(440 V) 60 °C 40 A<br>(500 V) 60 °C 35 A<br>(690 V) 60 °C 25 A<br>(380 / 400 V) 60 °C 40 A<br>(220 / 230 / 240 V) 60 °C 40 A  |
| Rated Operational Power AC-3 (P <sub>e</sub> )           | (415 V) 22 kW<br>(440 V) 22 kW<br>(500 V) 22 kW<br>(690 V) 22 kW<br>(380 / 400 V) 18.5 kW<br>(220 / 230 / 240 V) 11 kW  |
| Rated Operational Power AC-3e (P <sub>e</sub> )          | (415 V) 22 kW<br>(440 V) 22 kW<br>(500 V) 22 kW<br>(690 V) 22 kW<br>(380 / 400 V) 18.5 kW<br>(220 / 230 / 240 V) 11 kW  |
| Rated Operational Power AC-6b (P <sub>e</sub> )          | (400 / 415 V) 40 °C, 50 / 60 Hz 26 kvar<br>(400 / 415 V) 70 °C, 50 / 60 Hz 20 kvar<br>(400 / 415 V) 55 °C, 50 / 60 Hz 26 kvar<br>(440 V) 40 °C, 50 / 60 Hz 28.5 kvar<br>(440 V) 55 °C, 50 / 60 Hz 65 kvar<br>(440 V) 70 °C, 50 / 60 Hz 22 kvar<br>(500 / 550 V), 40 °C, 50 / 60 Hz 35 kvar<br>(500 / 550 V) 55 °C, 50 / 60 Hz 35 kvar<br>(500 / 550 V) 70 °C, 50 / 60 Hz 25 kvar<br>(690 V) 40 °C, 50 / 60 Hz 46 kvar |

|   |   |
|---|---|
|   | (690 V) 55 °C, 50 / 60 Hz 46 kvar<br>(690 V) 70 °C, 50 / 60 Hz 34.5 kvar  |
| Rated Short-time Withstand Current Low Voltage ( $I_{cw}$ ) | at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 110 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 250 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1000 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 350 A   |
| Maximum Breaking Capacity                                   | cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 440 V 950 A<br>cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 690 V 600 A  |
| Rated Insulation Voltage ( $U_i$ )                          | acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V<br>acc. to UL/CSA 600 V  |
| Rated Impulse Withstand Voltage ( $U_{imp}$ )               | Auxiliary Circuit 6 kV  |
| Maximum Electrical Switching Frequency                      | (AC-1) 600 cycles per hour<br>(AC-2 / AC-4) 150 cycles per hour<br>(AC-3) 1200 cycles per hour  |
| Maximum Mechanical Switching Frequency                      | 3600 cycles per hour  |
| Rated Control Circuit Voltage ( $U_c$ )                     | 50 Hz 230 ... 240 V<br>60 Hz 240 ... 260 V  |
| Coil Consumption  | Average Holding Value 50 / 60 Hz 20 V·A<br>Average Pull-in Value 50 Hz 150 V·A<br>Average Pull-in Value 60 Hz 151 V·A   |
| Power Loss  | at Rated Operating Conditions AC-1 per Pole 3 W<br>at Rated Operating Conditions AC-3 per Pole 1 W  |
| Operate Time  | Between Coil De-energization and NC Contact Closing 6 ... 19 ms<br>Between Coil De-energization and NO Contact Opening 4 ... 14 ms<br>Between Coil Energization and NC Contact Opening 3 ... 16 ms<br>Between Coil Energization and NO Contact Closing 7 ... 21 ms  |
| Mounting on DIN Rail  | TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715<br>TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715  |
| Mounting by Screws (not supplied)                           | 2 x M4 or 2 x M6 Screws Placed Diagonally   |
| Connecting Capacity Main Circuit                            | Flexible with Ferrule 1/2x 4 ... 35 mm <sup>2</sup><br>Flexible with Insulated Ferrule 1/2x 4 ... 35 mm <sup>2</sup><br>Rigid 1/2x 6 ... 3 5 mm <sup>2</sup>  |
| Connecting Capacity Control Circuit                         | Flexible with Ferrule 1/2x 0.75 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm <sup>2</sup><br>Rigid 1/2x 1 ... 2.5 mm <sup>2</sup> |
| Wire Stripping Length                                       | Control Circuit 10 mm<br>Main Circuit 16 mm   |
| Degree of Protection  | acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20<br>acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20<br>acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP10   |
| Recommended Screw Driver                                    | Pozidriv PZ   |
| Tightening Torque   | Control Circuit 1.2 N·m<br>Main Circuit 4 N·m   |
| Terminal Type   | Screw Terminals   |
| Product Name  | Block Contactor   |

## Technical UL/CSA

|                                  |  |
|----------------------------------|--|
| NEMA Size                        | 2  |
| Continuous Current Rating NEMA   | 45 A   |
| Horsepower Rating NEMA           | (115 V AC) Single Phase 3 Hp<br>(200 V AC) Three Phase 10 Hp<br>(230 V AC) Single Phase 7-1/2 Hp<br>(230 V AC) Three Phase 15 Hp<br>(460 V AC) Three Phase 25 Hp<br>(575 V AC) Three Phase 25 Hp |
| Maximum Operating Voltage UL/CSA | Main Circuit 600 V   |
| General Use Rating UL/CSA        | (600 V AC) 60 A  |

|                             |  |
|-----------------------------|--|
| Horsepower Rating<br>UL/CSA | (120 V AC) Single Phase 3 hp<br>(200 ... 208 V AC) Three Phase 10 hp<br>(220 ... 240 V AC) Three Phase 15 hp<br>(240 V AC) Single Phase 7-1/2 hp<br>(440 ... 480 V AC) Three Phase 30 hp<br>(550 ... 600 V AC) Three Phase 40 hp |
| Tightening Torque<br>UL/CSA | Control Circuit 11 in-lb<br>Main Circuit 35 in-lb  |
| Full Load Amps Motor<br>Use | (120 V AC) Single Phase 34 A<br>(200 ... 208 V AC) Three Phase 32.2 A<br>(220 ... 240 V AC) Three Phase 42 A<br>(240 V AC) Single Phase 40 A<br>(440 ... 480 V AC) Three Phase 41 A<br>(550 ... 600 V AC) Three Phase 40 A       |

## Environmental

|   |  |
|---|--|
| Ambient Air Temperature                       | Close to Contactor without Thermal O/L Relay -40 ... 70 °C<br>Close to Contactor for Storage -60 ... +80 °C  |
| Climatic Withstand                            | Category B according to IEC 60947-1 Annex Q  |
| Maximum Operating<br>Altitude Permissible     | Without Derating 3000 m  |
| Resistance to Shock acc.<br>to IEC 60068-2-27 | Closed, Shock Direction: A 25 g<br>Closed, Shock Direction: B1 25 g<br>Closed, Shock Direction: B2 15 g<br>Closed, Shock Direction: C1 25 g<br>Closed, Shock Direction: C2 25 g<br>Open, Shock Direction: B1 5 g |
| Pollution Degree                              | 3  |

## Material Compliance

|   |  |
|---|--|
| Conflict Minerals<br>Reporting Template<br>(CMRT) | 9AKK108467A5658  |
| 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<br>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

|                                     |                                    |
|-------------------------------------|------------------------------------|
| A2L Certificate - UL                | 9AKK108469A4888<br>9AKK108469A4889 |
| BV Certificate                      | BV_2634H36994A                     |
| CB Certificate                      | SE-114796                          |
| CCC Certificate                     | 2020980304001074                   |
| CCS Certificate                     | GZ23PTB00147                       |
| CQC Certificate                     | CQC2012010304589737                |
| Declaration of Conformity<br>- CE   | 1SBD250024U1000                    |
| Declaration of Conformity<br>- UKCA | 1SBD250045U1000                    |
| DNV Certificate                     | 9AKK108470A6934                    |
| RINA Certificate                    | 9AKK108470A5006                    |
| UL Certificate                      | UL-CA-2337651-0<br>UL-US-2343489-0 |

## Container Information

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Units          | box 1 piece   |
| Package Level 1 Width          | 146.5 mm      |
| Package Level 1 Depth / Length | 96.5 mm       |
| Package Level 1 Height         | 146.5 mm      |
| Package Level 1 Gross Weight   | 1.1 kg        |
| Package Level 1 EAN            | 3471523018815 |

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## 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                   |

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## Categories

Low Voltage Products and Systems → Control Products → Contactors → Block Contactors → AF Contactors → AF40

