



Representative Image

## Alternate Catalog No. AF305-30-11-34 Catalog No. 1SFL587002R3411

**Description:** AF305-30-11-34 Contactor

**UPC No** 7320500504628

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A 3-phase Contactor suitable for various applications such as Motor starting, Isolation, By-pass and Distribution application up to max 1000 V. Controlled with PLC and with wide control voltage range 250-500 V, AC/DC

### Descriptors

|                      |                  |
|----------------------|------------------|
| Category             | AF Contactors    |
| Block Contactor Type | 3-Pole Contactor |

### Specifications

|                                                    |                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type                                       | AF                                                                                                                                                                                                                                                                                                                                                    |
| General Use Rating UL/CSA                          | (600 V AC) 400 A                                                                                                                                                                                                                                                                                                                                      |
| Object Classification Code                         | Q                                                                                                                                                                                                                                                                                                                                                     |
| Terminal Type                                      | Main Circuit: Bars                                                                                                                                                                                                                                                                                                                                    |
| Rated Control Circuit Voltage                      | 50 Hz /60 Hz DC Operation 250 ... 500 V                                                                                                                                                                                                                                                                                                               |
| Number of Main Contacts NO                         | 3                                                                                                                                                                                                                                                                                                                                                     |
| Number of Main Contacts NC                         | 0                                                                                                                                                                                                                                                                                                                                                     |
| Number of Auxiliary Contacts NO                    | 1                                                                                                                                                                                                                                                                                                                                                     |
| RoHS Status                                        | Following EU Directive 2011/65/EU                                                                                                                                                                                                                                                                                                                     |
| Reference Ambient Air Temperature                  | Close to Contactor for Storage -40 ... +70 °C<br>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                                                                                                                                   |
| Rated Operational Voltage                          | Main Circuit 1000 V                                                                                                                                                                                                                                                                                                                                   |
| Number of Auxiliary Contacts NC                    | 1                                                                                                                                                                                                                                                                                                                                                     |
| Maximum Operating Altitude Permissible             | 3000 m                                                                                                                                                                                                                                                                                                                                                |
| Rated Operational Power AC-3                       | (1000 V) 185 KWT<br>(220 / 230 / 240 V) 90 KWT<br>(380 / 400 V) 160 KWT<br>(415 V) 160 KWT<br>(440 V) 160 KWT<br>(500 V) 200 KWT<br>(690 V) 250 KWT                                                                                                                                                                                                   |
| Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1 | 8 x Ie AC-3                                                                                                                                                                                                                                                                                                                                           |
| Conventional Free-air Thermal Current              | acc. to IEC 60947-4-1, Open Contactors q = 40 °C 500 A                                                                                                                                                                                                                                                                                                |
| Rated Frequency                                    | Main Circuit 60 Hz                                                                                                                                                                                                                                                                                                                                    |
| Rated Short-time Withstand Current                 | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 2440 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 500 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 996 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3050 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 1409 A |

**by ABB**

## Specifications

|                                                  |                                                                                                                                                                                  |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated Operational Current AC-3                   | (1000 V) 55 °C 131 A<br>(220 / 230 / 240 V) 55 °C 305 A<br>(380 / 400 V) 55 °C 305 A<br>(415 V) 55 °C 305 A<br>(440 V) 55 °C 305 A<br>(500 V) 55 °C 290 A<br>(690 V) 55 °C 290 A |
| Rated Making Capacity AC-3 acc. to IEC 60947-4-1 | 10 x I <sub>e</sub> AC-3                                                                                                                                                         |
| 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                                                                                          |
| Short-Circuit Protective Devices                 | gG Type Fuses 500 A                                                                                                                                                              |
| Rated Insulation Voltage                         | acc. to UL/CSA 600 V<br>acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V                                                                                                        |
| Mechanical Durability                            | 5 million                                                                                                                                                                        |
| Coil Operating Limits                            | (acc. to IEC 60947-4-1) U <sub>c</sub> (at $\theta \leq 70\text{ °C}$ )                                                                                                          |
| Maximum Mechanical Switching Frequency           | 300 cycles per hour                                                                                                                                                              |
| Operate Time                                     | Between Coil De-energization and NO Contact Opening 37 ... 47 ms<br>Between Coil Energization and NO Contact Closing 25 ... 55 ms                                                |
| Secondary Rated Impulse Withstand Voltage        | 8 kV                                                                                                                                                                             |
| Degree of Protection                             | acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20                                                                                                                |

## Classifications

|                                    |                                           |
|------------------------------------|-------------------------------------------|
| ETIM 4                             | EC000066 - Magnet contactor, AC-switching |
| ETIM 6.0                           | EC000066 - Power contactor, AC switching  |
| ETIM 7                             | EC000066 - Power contactor, AC switching  |
| IDEA Granular Category Code (IGCC) | 4755 >> Contactors                        |
| ETIM 5.0                           | EC000066 - Magnet contactor, AC-switching |

## Dimensions

|                            |          |
|----------------------------|----------|
| Product Net Weight         | 3.9 kg   |
| Product Net Depth / Length | 195.5 mm |
| Product Net Width          | 140 mm   |
| Product Net Height         | 225 mm   |

## Package Information

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Width          | 263 mm        |
| Package Level 1 Height         | 289 mm        |
| Package Level 1 Depth / Length | 203 mm        |
| Package Level 1 EAN            | 7320500504628 |
| Package Level 1 Units          | box 1 piece   |
| Package Level 1 Gross Weight   | 4.6 kg        |

## Ordering

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