

MANUFACTURER DOCUMENT PACKAGE

# Manufacturer's Manual

Reference package for procurement and maintenance review

ABB

## AF260-30-11 1SFL537001R7011

3-POLE AF CONTACTOR

Used with the applicable ABB AF contactors configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: ABB official manufacturer documentation

## PRODUCT-DETAILS

# AF260-30-11-70

## AF260-30-11 100-250V 50/60Hz / 100-250V DC Contactor



### General Information

|                       |                                                                                                                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | AF260-30-11-70                                                                                                                                                                                          |
| Product ID            | 1SFL537001R7011                                                                                                                                                                                         |
| EAN                   | 7320500217641                                                                                                                                                                                           |
| Catalog Description   | AF260-30-11 100-250V 50/60Hz / 100-250V DC Contactor                                                                                                                                                    |
| Long Description      | A 3-phase Contactor suitable for various applications such as Motor starting, Isolation, Bypass and Distribution application up to max 690 V. Operated with wide control voltage range 100-250 V, AC/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)                  | 4115279                                   |
| E-Number (Sweden)                  | 3228316                                   |

## Container Information

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Units          | box 1 piece   |
| Package Level 1 Width          | 203 mm        |
| Package Level 1 Depth / Length | 245 mm        |
| Package Level 1 Height         | 188 mm        |
| Package Level 1 Gross Weight   | 5.8 kg        |
| Package Level 1 EAN            | 7320500217641 |

## Certificates and Declarations (Document Number)

|                                |                      |
|--------------------------------|----------------------|
| ABS Certificate                | 15-LD1408622-PDA     |
| BV Certificate                 | BV_13409-C0BV        |
| CB Certificate                 | SEMKO_SE-69490       |
| CCC Certificate                | CQC_2007010304256681 |
| CCS Certificate                | GB14T00030           |
| Declaration of Conformity - CE | 2CMT2015-005436      |
| DNV GL Certificate             | TAE00001W1           |
| EAC Certificate                | 9AKK107046A8618      |
| Environmental Information      | 1SFC101008D0201      |
| GL Certificate                 | GL_20262-04HH        |
| Instructions and Manuals       | 1SFC380003-89        |
| LOVAG Certificate              | SE-0115199           |
| LR Certificate                 | 16-20064             |
| RINA Certificate               | ELE060313XG_002      |
| RMRS Certificate               | RMRS_12-03683-315    |
| RoHS Information               | 2CMT2015-005436      |

## Technical UL/CSA

|                                  |                                                                                                                                                                                         |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Maximum Operating Voltage UL/CSA | Main Circuit 600 V                                                                                                                                                                      |
| General Use Rating UL/CSA        | (600 V AC) 350 A                                                                                                                                                                        |
| Horsepower Rating UL/CSA         | (200 V AC) Three Phase 75 hp<br>(208 V AC) Three Phase 75 hp<br>(220 ... 240 V AC) Three Phase 100 hp<br>(440 ... 480 V AC) Three Phase 200 hp<br>(550 ... 600 V AC) Three Phase 250 hp |

## Environmental

|                                        |                                                                                                                                                                                                                     |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 ... +50 °C<br>Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 Uc) -40 ... +70 °C |
| Maximum Operating Altitude Permissible | 3000 m                                                                                                                                                                                                              |

Resistance to Shock acc.  
to IEC 60068-2-27

Shock Direction: A 5 K40  
Shock Direction: B1 5 K40  
Shock Direction: B2 5 K40  
Shock Direction: C1 5 K40  
Shock Direction: C2 5 K40

RoHS Status

Following EU Directive 2011/65/EU

## Technical

|                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of Main Contacts<br>NO                         | 3                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Number of Main Contacts<br>NC                         | 0                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Number of Auxiliary<br>Contacts NO                    | 1                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Number of Auxiliary<br>Contacts NC                    | 1                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Rated Operational Voltage                             | Main Circuit 690 V                                                                                                                                                                                                                                                                                                                                                                                                      |
| Rated Frequency (f)                                   | Main Circuit 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                   |
| Conventional Free-air<br>Thermal Current ( $I_{th}$ ) | acc. to IEC 60947-4-1, Open Contactors $q = 40^\circ\text{C}$ 400 A                                                                                                                                                                                                                                                                                                                                                     |
| Rated Operational Current<br>AC-1 ( $I_e$ )           | (690 V) $40^\circ\text{C}$ 400 A<br>(690 V) $55^\circ\text{C}$ 350 A<br>(690 V) $70^\circ\text{C}$ 290 A                                                                                                                                                                                                                                                                                                                |
| Rated Operational Current<br>AC-3 ( $I_e$ )           | (220 / 230 / 240 V) $55^\circ\text{C}$ 260 A<br>(380 / 400 V) $55^\circ\text{C}$ 260 A<br>(415 V) $55^\circ\text{C}$ 260 A<br>(440 V) $55^\circ\text{C}$ 240 A<br>(500 V) $55^\circ\text{C}$ 240 A<br>(690 V) $55^\circ\text{C}$ 220 A                                                                                                                                                                                  |
| Rated Operational Power<br>AC-3 ( $P_e$ )             | (220 / 230 / 240 V) 80 KWT<br>(380 / 400 V) 140 KWT<br>(415 V) 140 KWT<br>(440 V) 140 KWT<br>(500 V) 180 KWT<br>(690 V) 200 KWT                                                                                                                                                                                                                                                                                         |
| Rated Breaking Capacity<br>AC-3 acc. to IEC 60947-4-1 | 8 x $I_e$ AC-3                                                                                                                                                                                                                                                                                                                                                                                                          |
| Rated Making Capacity<br>AC-3 acc. to IEC 60947-4-1   | 10 x $I_e$ AC-3                                                                                                                                                                                                                                                                                                                                                                                                         |
| Short-Circuit Protective<br>Devices                   | gG Type Fuses 500 A                                                                                                                                                                                                                                                                                                                                                                                                     |
| Rated Short-time<br>Withstand Current ( $I_{cw}$ )    | at $40^\circ\text{C}$ Ambient Temp, in Free Air, from a Cold State 10 s 2400 A<br>at $40^\circ\text{C}$ Ambient Temp, in Free Air, from a Cold State 15 min 500 A<br>at $40^\circ\text{C}$ Ambient Temp, in Free Air, from a Cold State 1 min 1100 A<br>at $40^\circ\text{C}$ Ambient Temp, in Free Air, from a Cold State 1 s 3500 A<br>at $40^\circ\text{C}$ Ambient Temp, in Free Air, from a Cold State 30 s 1500 A |
| Maximum Breaking<br>Capacity                          | $\cos \phi = 0.45$ ( $\cos \phi = 0.35$ for $I_e > 100$ A) at 440 V 2600 A<br>$\cos \phi = 0.45$ ( $\cos \phi = 0.35$ for $I_e > 100$ A) at 690 V 2400 A                                                                                                                                                                                                                                                                |
| Maximum Electrical<br>Switching Frequency             | 300 cycles per hour<br>AC-1 300 cycles per hour<br>AC-2 / AC-4 150 cycles per hour<br>AC-3 300 cycles per hour                                                                                                                                                                                                                                                                                                          |
| Rated Operational Current<br>DC-1 ( $I_e$ )           | (110 V) 2 Poles in Series, $40^\circ\text{C}$ 400 A<br>(220 V) 3 Poles in Series, $40^\circ\text{C}$ 400 A                                                                                                                                                                                                                                                                                                              |
| Rated Operational Current<br>DC-3 ( $I_e$ )           | (110 V) 2 Poles in Series, $40^\circ\text{C}$ 400 A<br>(220 V) 3 Poles in Series, $40^\circ\text{C}$ 400 A                                                                                                                                                                                                                                                                                                              |