



Representative Image

## Alternate Catalog No. AF38B-30-00-14 Catalog No. 1SBL297061R1400

**Description:** AF38B-30-00-14 250-500V50/60HZ-DC Contactor

**UPC No** 3471523122642

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AF38B 3-pole contactors comply with the latest railway rolling stock standards and allow installation in passengers or driver cabins for trains frequently operating tunnels or undergrounds. They are mainly used for controlling 3-phase motors and power circuits up to 690 V AC and 220 V DC. Improve the compactness of the installations thanks to reduced dimension and side-by-side mounting requiring less 15% width (without spacing) from -40 °C up to +70 °C. Meet all main rolling stocks standards: IEC 60947-4-1, IEC 60947-5-1, IEC 60077-1/-2 and applicable parts of EN 50155 standards, shocks and vibration withstand conforming to IEC 61373 cat. 1, class B. Reach the highest levels in fire and smoke behaviour with compliance to European standard EN 45545-2 (HL2, HL3 hazard levels) in group mounting. Reduce train energy with lighter devices and requiring 68% less coil energy consumption in operation. Electronic coil interface accepting sinusoidal AC 50/60 Hz control supplies included inside Ucmín.... Ucmáx voltage range. Max permitted AC 50/60 Hz control voltage must not be exceeded (see technical data). Wide range of auxiliary contact blocks for front and side mounting.

### Descriptors

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

### Specifications

|                                  |                                                                                                                                                                                                                                                                        |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type                     | AF                                                                                                                                                                                                                                                                     |
| General Use Rating UL/CSA        | (600 V AC) 50 A                                                                                                                                                                                                                                                        |
| Object Classification Code       | Q                                                                                                                                                                                                                                                                      |
| Terminal Type                    | Screw Terminals                                                                                                                                                                                                                                                        |
| 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                                                                                                                                                                                                                                                                      |
| Climatic Withstand               | Category B according to IEC 60947-1 Annex Q                                                                                                                                                                                                                            |
| Number of Auxiliary Contacts NO  | 0                                                                                                                                                                                                                                                                      |
| RoHS Status                      | Following EU Directive 2011/65/EU                                                                                                                                                                                                                                      |
| Rated Operational Voltage        | Main Circuit 690 V                                                                                                                                                                                                                                                     |
| Number of Auxiliary Contacts NC  | 0                                                                                                                                                                                                                                                                      |
| Rated Operational Current AC-1   | (690 V) 40 °C 50 A                                                                                                                                                                                                                                                     |
| Horsepower Rating UL/CSA         | (220 ... 240 V AC) Three Phase 10 hp<br>(440 ... 480 V AC) Three Phase 25 hp<br>(550 ... 600 V AC) Three Phase 30 hp<br>(120 V AC) Single Phase 2 hp<br>(200 ... 208 V AC) Three Phase 10 hp<br>(240 V AC) Single Phase 5 hp                                           |
| Rated Frequency                  | Main Circuit 50Hz<br>Main Circuit 60 Hz                                                                                                                                                                                                                                |
| Rated Operational Current AC-3   | (380 / 400 V) 60 °C 38 A                                                                                                                                                                                                                                               |
| Operate Time                     | Between Coil De-energization and NC Contact Closing 13 ... 98 ms<br>Between Coil De-energization and NO Contact Opening 11 ... 95 ms<br>Between Coil Energization and NC Contact Opening 38 ... 90 ms<br>Between Coil Energization and NO Contact Closing 40 ... 95 ms |
| Connecting Capacity Main Circuit | Rigid 1/2x 2.5 ... 10 m <sup>2</sup><br>Flexible with Ferrule 1/2x 1.5 ... 10 m <sup>2</sup><br>Flexible with Insulated Ferrule 1x 1.5 ... 10 m <sup>2</sup> /2x 1.5 ... 4 m <sup>2</sup>                                                                              |

**by ABB**

## Specifications

|                       |                                                                                                                              |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------|
| 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 IP20 |
| Screw Terminal Type   | Screw Terminals                                                                                                              |
| Wire Stripping Length | Main Circuit 14 mm                                                                                                           |

## Classifications

|          |                                           |
|----------|-------------------------------------------|
| ETIM 4   | EC000066 - Magnet contactor, AC-switching |
| ETIM 6.0 | EC000066 - Power contactor, AC switching  |
| ETIM 7   | EC000066 - Power contactor, AC switching  |
| ETIM 5.0 | EC000066 - Magnet contactor, AC-switching |

## Dimensions

|                            |         |
|----------------------------|---------|
| Product Net Weight         | 0.37 kg |
| Product Net Depth / Length | 86 mm   |
| Product Net Width          | 45 mm   |
| Product Net Height         | 86 mm   |

## Package Information

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Width          | 87 mm         |
| Package Level 1 Height         | 47 mm         |
| Package Level 1 Depth / Length | 87 mm         |
| Package Level 1 EAN            | 3471523122642 |
| Package Level 1 Units          | box 1 piece   |
| Package Level 2 Width          | 250 mm        |
| Package Level 2 Height         | 315 mm        |
| Package Level 1 Gross Weight   | 0.37 kg       |
| Package Level 2 Units          | 21 piece      |
| Package Level 3 Units          | 1080 piece    |
| Package Level 2 Depth / Length | 300 mm        |
| Package Level 2 Gross Weight   | 16.65 kg      |

## Ordering

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