

Alternate Catalog No. AF30ZB-30-00RT-21 Catalog No. 1SBL276060R2100

Description: AF30ZB-30-00RT-21 24-60V50/60HZ 20-60VDC Contactor

UPC No 3471523128811

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AF30ZB..RT 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 handling large DC voltage fluctuation voltage, including several Uc DC control voltages used for battery supply and accepting sinusoidal AC 50/60 Hz control supplies included inside U_{cmin}... U_{cmax} 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.



Representative Image

Descriptors

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

Specifications

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|--|---|
| Product Type | AF |
| General Use Rating UL/CSA | (600 V AC) 50 A |
| Object Classification Code | Q |
| Terminal Type | Ring-Tongue Terminals |
| Rated Control Circuit Voltage | 50 Hz /60 Hz 24 ... 60 V DC Operation 20 ... 60 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 |
| Reference Ambient Air Temperature | Close to Contactor for Storage -60 ... +80 °C Close to Contactor without Thermal O/L Relay -40 ... +70 °C Close to Contactor Fitted with Thermal O/L Relay -25 ... +60 °C |
| Rated Operational Voltage | Main Circuit 690 V |
| Number of Auxiliary Contacts NC | 0 |
| Maximum Operating Altitude Permissible | 3000 m |
| Rated Operational Current AC-1 | (690 V) 40 °C 50 A (690 V) 60 °C 42 A (690 V) 70 °C 37 A (220 / 230 / 240 V) 9 KWT (380 / 400 V) 15 KWT |
| Rated Operational Power AC-3 | (415 V) 15 KWT (440 V) 18.5 KWT (500 V) 18.5 KWT (690 V) 18.5 KWT |

Specifications

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|---|---|
| Horsepower Rating UL/CSA | (220 ... 240 V AC) Three Phase 10 hp (440 ... 480 V AC) Three Phase 20 hp (550 ... 600 V AC) Three Phase 25 hp (120 V AC) Single Phase 2 hp (200 ... 208 V AC) Three Phase 10 hp (240 V AC) Single Phase 5 hp |
| Conventional Free-air Thermal Current | acc. to IEC 60947-4-1, Open Contactors q = 40 °C 50 A |
| Rated Frequency | Main Circuit 50Hz Main Circuit 60 Hz |
| Rated Short-time Withstand Current | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 350 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 50 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 150 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 700 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 225 A for 1 s - A |
| Rated Operational Current AC-3 | (220 / 230 / 240 V) 60 °C 33 A (380 / 400 V) 60 °C 32 A (415 V) 60 °C 32 A (440 V) 60 °C 32 A (500 V) 60 °C 28 A (690 V) 60 °C 21 A |
| Maximum Electrical Switching Frequency | AC-1 600 cycles per hour AC-2 / AC-4 150 cycles per hour AC-3 1200 cycles per hour |
| Rated Insulation Voltage | acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V |
| Maximum Breaking Capacity | cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 440 V 500 A cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 690 V 200 A |
| Maximum Mechanical Switching Frequency | 3600 cycles per hour |
| Operate Time | Between Coil De-energization and NC Contact Closing 13 ... 98 ms Between Coil De-energization and NO Contact Opening 11 ... 95 ms Between Coil Energization and NC Contact Opening 38 ... 90 ms Between Coil Energization and NO Contact Closing 40 ... 95 ms |
| Secondary Rated Impulse Withstand Voltage | 6 kV |
| Screw Terminal Type | Ring-Tongue Terminals |

Classifications

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|----------|---|
| 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

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|----------------------------|---------|
| Product Net Weight | 0.36 kg |
| Product Net Depth / Length | 86 mm |
| Product Net Width | 45 mm |
| Product Net Height | 86 mm |

Package Information

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|--------------------------------|---------------|
| Package Level 1 Width | 87 mm |
| Package Level 1 Height | 47 mm |
| Package Level 1 Depth / Length | 87 mm |
| Package Level 1 EAN | 3471523128811 |
| Package Level 1 Units | box 1 piece |
| Package Level 2 Width | 250 mm |
| Package Level 2 Height | 315 mm |

Package Information

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|--------------------------------|------------|
| Package Level 1 Gross Weight | 0.36 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 | 16.2 kg |

Ordering

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