



Representative Image

Alternate Catalog No. NFZB22E-21 Catalog No. 1SBH136061R2122

Description: NFZB22E-21 24-60V50/60HZ 20-60VDC Contactor Relay

UPC No 3471523105515

Home > Contactors & Starters > UL Listed IEC Contactors > AF Contactors

NFZB contactor relays 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 used for switching auxiliary and control circuits. 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.

Descriptors

Category	AF Contactors
Block Contactor Type	Contactor Relay

Specifications

Product Type	AF
Object Classification Code	K
Terminal Type	Screw Terminals
Rated Control Circuit Voltage	50 Hz /60 Hz 24 ... 60 V DC Operation 20 ... 60 V
Number of Auxiliary Contacts NO	2
RoHS Status	Following EU Directive 2011/65/EU
Reference Ambient Air Temperature	Close to Contactor for Storage °C Near Contactor for Operation in Free Air °C
Rated Operational Voltage	Auxiliary Circuit 690 V
Number of Auxiliary Contacts NC	2
Maximum Operating Altitude Permissible	3000 m
Conventional Free-air Thermal Current	acc. to IEC 60947-5-1, q = 40 °C 16 A (220 / 240 V) 4 A (24 / 127 V) 6 A (500 V) 2 A (690 V) 2 A (400 / 440 V) 3 A
Rated Operational Current AC-15	Main Circuit 50Hz Main Circuit 60 Hz
Rated Frequency	for 0.1 s A for 1 s A
Rated Short-time Withstand Current	AC-15 1200 cycles per hour DC-13 900 cycles per hour
Maximum Electrical Switching Frequency	acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V
Rated Insulation Voltage	6000 cycles per hour
Maximum Mechanical Switching Frequency	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
Operate Time	

by ABB

Specifications

Secondary Rated Impulse Withstand Voltage

6 kV

Rated Operational Current DC-13

(125 V) 0.55 A / 69 W
(24 V) 6 A / 144 W
(250 V) 0.27 A / 68 W
(48 V) 2.8 A / 134 W
(72 V) 1 A / 72 W
(110 V) 0.55 A / 60 W
(220 V) 0.27 A / 60 W
(400 V) 0.15 A / 60 W
(500 V) 0.13 A / 65 W
(600 V) 0.1 A / 60 W

Classifications

ETIM 4

EC000196 - Contactor relay

ETIM 6.0

EC000196 - Contactor relay

ETIM 7

EC000196 - Contactor relay

ETIM 5.0

EC000196 - Contactor relay

Dimensions

Product Net Weight

0.31kg

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 Depth / Length

79 mm

Package Level 1 EAN

3471523105515

Package Level 1 Units

box 1 piece

Package Level 2 Height

315 mm

Package Level 2 Units

27 piece

Package Level 3 Units

1296 piece

Package Level 2 Depth / Length

300 mm

Package Level 2 Gross Weight

16.74 kg

Ordering

Minimum Order Quantity

1