

PRODUCT-DETAILS

NFZB31E-23

NFZB31E-23 100-250V50/60HZ-DC Contactor Relay



Algemene informatie

Type	NFZB31E-23
Artikelnummer	1SBH136061R2331
EAN	3471523105638
Omschrijving	NFZB31E-23 100-250V50/60HZ-DC Contactor Relay

Omschrijving	<p>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 U_c 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.</p>
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Ordering

Minimale bestelhoeveelheid	1 stuk
Nummer douanetarief	85364900

Popular Downloads

Instructies en handleidingen	1SBC101027M6801
CAD Dimensional Drawing	2CDC001079B0201

Dimensions

Product netto breedte	45 mm
Product netto diepte	86 mm
Product netto hoogte	86 mm
Product netto gewicht	0.31 kg

Technical

Aantal hulpcontacten NO	3
Aantal hulpcontacten NC	1
Normen	IEC/EN 60947-1, IEC/EN 60947-5-1, UL 60947-5-1, CSA C22.2 No. 60947-5-1, IEC 60077-1 (applicable parts), IEC 60077-2 (applicable parts), EN 50155 (applicable parts), TR CU 001/2011, IEC 61373, For compliance confirmation on applicable parts based on your application and combination, please consult your ABB sales representatives.
Nominaal bedrijfsvoltage	Auxiliary Circuit 690 V
Toegekende frequentie (f)	Auxiliary Circuit 50 / 60 Hz Control Circuit 50 / 60 Hz Main Circuit 50 / 60 Hz
Conventionele vrije-lucht thermische stroom (I_{th})	acc. to IEC 60947-5-1, $\Theta = 40\text{ }^{\circ}\text{C}$ 16 A
Nominale bedrijfstrom AC-15 (I_{θ})	(500 V) 2 A (690 V) 2 A (24 / 127 V) 6 A (220 / 240 V) 4 A (400 / 440 V) 3 A
Nominale kortstondige grensstrom (I_{cw})	for 0.1 s 140 A for 1 s 100 A
Maximale elektrische schakelfrequentie	(AC-15) 1200 omwentelingen per uur (DC-13) 900 omwentelingen per uur
Nominale bedrijfstrom DC-13 (I_{θ})	(24 V) 6 A / 144 W (48 V) 2.8 A / 134 W (72 V) 1 A / 72 W (110 V) 0.55 A / 60 W (125 V) 0.55 A / 69 W (220 V) 0.27 A / 60 W (250 V) 0.27 A / 68 W (400 V) 0.15 A / 60 W (500 V) 0.13 A / 65 W (600 V) 0.1 A / 60 W
Nominaal isolatievoltage (U_i)	acc. to IEC 60947-5-1 690 V acc. to UL/CSA 600 V
Nominale impuls grensvoltage (U_{imp})	6 kV
Maximale mechanische schakelfrequentie	6000 omwentelingen per uur
Nominale stroomkringspanning (U_c)	50 Hz 100 ... 250 V 60 Hz 100 ... 250 V DC Operation 100 ... 250 V
Bedieningstijd	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
Montage op DIN-rail	TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715

Montage door schroeven (niet meegeleverd)	2 x M4 screws placed diagonally
Verbindingscapaciteit hulpcircuit	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm ² Rigid Solid 1/2x 1 ... 2.5 mm ² Rigid Stranded 1/2x 1 ... 2.5 mm ²
Verbindingscapaciteit controlecircuit	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm ² Rigid Solid 1/2x 1 ... 2.5 mm ² Rigid Stranded 1/2x 1 ... 2.5 mm ²
Kabelstriplengte	Control Circuit 10 mm
Beschermingsgraad	acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20
Terminaltype	Schroef

Technical UL/CSA

Verbindingscapaciteit hulpcircuit UL/CSA	Rigid Solid 1/2x 18-14 AWG Rigid Stranded 1/2x 18-14 AWG
Aanhaalmoment UL/CSA	Auxiliary Circuit 11 in-lb Control Circuit 11 in-lb

Environmental

Omgevingsluchttemperatu ur	bij schakelaar voor opslag -60 ... +80 °C bij schakelaar voor bedrijf in open lucht -40 ... 70 °C
Klimaatbestendig	Category B according to IEC 60947-1 Annex Q
Maximale werkhoogte toegestaan	Without Derating 3000 m
RoHS-status	Following EU Directive 2011/65/EU

Certificates and Declarations

CB-certificaat	CB_SE-93051M2
CCC-certificaat	CCC_2011010303465426
CQC-certificaat	CQC2019010303267993
Declaration of Conformity - CCC	2020980303000175
Conformiteitsverklaring - CE	1SBD250006U1000
Declaration of Conformity - UKCA	1SBD250037U1000
EAC-certificaat	EAC_RU C-FR ME77 B01006
GOST-certificaat	GOST_POCCFR.ME77.B07174.pdf
RMRS-certificaat	RMRS_1802702280
UL-certificaat	UL_20180227_E252354_2_1
UL-noteringskaart	UL_E252354

Container Information

Pakketniveau 1 Units	doos 1 stuk
Pakketniveau 1 Breedte	87 mm
Pakketniveau 1 Lengte	79 mm
Pakketniveau 1 Hoogte	47 mm
Pakketniveau 1	0.31 kg

Brutogewicht	
Pakketniveau 1 EAN	3471523105638
Pakketniveau 2 Units	doos 27 stuk
Pakketniveau 2 Breedte	250 mm
Pakketniveau 2 Lengte	300 mm
Pakketniveau 2 Hoogte	315 mm
Pakketniveau 2 Brutogewicht	16.74 kg
Pakketniveau 3 Units	1296 stuk

Classifications

Object classificatiecode	K
ETIM 4	EC000196 - Contactor relay
ETIM 5	EC000196 - Contactor relay
ETIM 6	EC000196 - Hulprelais
ETIM 7	EC000196 - Contactor relay
ETIM 8	EC000196 - Hulprelais
eClass	V11.0 : 27371001
UNSPSC	39121529
IGCC (IDEA granulaire categoricode)	4763 >> Power contactor, DC switching

Categorieën

Laagspanningsproducten en -systemen → Control Producten → Magneetschakelaars → Magneetschakelaars

