NFZ53E-22 1/5



PRODUCT-DETAILS

NFZ53E-22

NFZ53E-22 48-130V50/60HZ-DC Contactor Relay



General	Inform	ation

Extended Product Type	NFZ53E-22
Product ID	1SBH136001R2253
EAN	3471523102224

Catalog Description

NFZ53E-22 48-130V50/60HZ-DC Contactor Relay

Long Description

NFZ contactor relays are used for switching auxiliary and control circuits. NFZ contactor relays include an electronic coil interface accepting a wide control voltage Uc min. ... Uc max. Only four coils cover control voltages between 24...250 V 50/60 Hz or 12...250 V DC. NF contactor relays can manage large control voltage variations. One coil can be used for different control voltages used worldwide without any coil change NFZ contactor relays allow direct control by PLC-output ≥ 24 V DC 500 mA and obtain a reduced holding coil consumption. NFZ contactor relays withstand short voltage dips and voltage sags (SEMI F47-0706 compliance) between 24...250 V 50/60 Hz NFZ contactor relays have built-in surge protection and do not require additional surge suppressors - Poles: 8-pole contactor relays with a non-removable front-mounted auxiliary contact block (mechanically-linked auxiliary contacts compliant with Annex L of IEC 60947-5-1 and including the "Mechanically Linked" symbol on the contactor relay side) - Control Circuit: AC or DC operated - Accessories: a wide range of Accessories is available.

Ordering

NFZ53E-22 2/5

Minimum Order Quantity1 pieceCustoms Tariff Number85364900

Instructions and	1SBC101027M6801
Manuals	1350101011110001
CAD Dimensional Drawing	2CDC001079B0201
Dimensions	
Product Net Width	45 mm
Product Net Depth / Length	110.5 mm
Product Net Height	86 mm
Product Net Weight	0.36 kg
•	5
Contacts NO Number of Auxiliary	
Contacts NO Number of Auxiliary Contacts NC	
Contacts NO Number of Auxiliary Contacts NC Standards Rated Operational	IEC/EN 60947-1, IEC/EN 60947-5-1, UL 508, CSA C22.2 No. 14-13
Contacts NO Number of Auxiliary Contacts NC Standards Rated Operational Voltage	IEC/EN 60947-1, IEC/EN 60947-5-1, UL 508, CSA C22.2 No. 14-13 Auxiliary Circuit 690 V Auxiliary Circuit 50 / 60 Hz
Number of Auxiliary Contacts NO Number of Auxiliary Contacts NC Standards Rated Operational Voltage Rated Frequency (f) Conventional Free-air Thermal Current (lth)	IEC/EN 60947-1, IEC/EN 60947-5-1, UL 508, CSA C22.2 No. 14-13 Auxiliary Circuit 690 V Auxiliary Circuit 50 / 60 Hz Control Circuit 50 / 60 Hz
Contacts NO Number of Auxiliary Contacts NC Standards Rated Operational Voltage Rated Frequency (f) Conventional Free-air Thermal Current (Ith) Rated Operational	S IEC/EN 60947-1, IEC/EN 60947-5-1, UL 508, CSA C22.2 No. 14-13 Auxiliary Circuit 690 V Auxiliary Circuit 50 / 60 Hz Control Circuit 50 / 60 Hz acc. to IEC 60947-5-1, Θ = 40 °C 16 A (500 V) 2 A (690 V) 2 A (24 / 127 V) 6 A (220 / 240 V) 4 A
Contacts NO Number of Auxiliary Contacts NC Standards Rated Operational Voltage Rated Frequency (f) Conventional Free-air	IEC/EN 60947-1, IEC/EN 60947-5-1, UL 508, CSA C22.2 No. 14-13 Auxiliary Circuit 690 V Auxiliary Circuit 50 / 60 Hz Control Circuit 50 / 60 Hz acc. to IEC 60947-5-1, Θ = 40 °C 16 A (500 V) 2 A (690 V) 2 A (24 / 127 V) 6 A

NFZ53E-22 3/5

Voltage (U _c)	60 Hz 48 130 V DC Operation 48 130 V
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
Mounting on 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
Mounting by Screws (not supplied)	2 x M4 screws placed diagonally
Connecting Capacity Auxiliary Circuit	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
Connecting Capacity Control Circuit	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
Wire Stripping Length	Auxiliary Circuit 10 mm Control Circuit 10 mm
Degree of Protection	acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20
Terminal Type	Screw Terminals

Technical UL/CSA

Connecting Capacity Auxiliary Circuit UL/CSA	Rigid Solid 1/2x 18-14 AWG Rigid Stranded 1/2x 18-14 AWG
Tightening Torque	Auxiliary Circuit 11 in·lb
UL/CSA	Control Circuit 11 in·lb

Environmental

Ambient Air	Close to Contactor for Storage -60 +80 °C
Temperature	Near Contactor for Operation in Free Air -40 70 °C
Climatic Withstand	Category B according to IEC 60947-1 Annex Q
Maximum Operating Altitude Permissible	Without Derating 3000 m
Resistance to Shock acc.	Closed, Shock Direction: B1 25 g
to IEC 60068-2-27	Open, Shock Direction: B1 5 g
	Shock Direction: A 30 g
	Shock Direction: B2 15 g
	Shock Direction: C1 25 g
	Shock Direction: C2 25 g
Resistance to Vibrations	4g Closed Position & 2g Open position 5 300 Hz

Material Compliance

Conflict Minerals	9AKK108467A5658
Reporting Template	
(CMRT)	
REACH Declaration	2CMT2021-006202
RoHS Information	2CMT2021-006277
RoHS Status	Following EU Directive 2011/65/EU
Toxic Substances	2CMT2023-006525
Control Act - TSCA	
WEEE B2C / B2B	Business To Business

4/5

Certificates and Declarations	
ABS Certificate	ABS_20-2060694-PDA
BV Certificate	BV_2634H24899C0
CB Certificate	CB_SE-93051M2
CCC Certificate	2020980303000185
CQC Certificate	CQC2019010303267993
Declaration of Conformity - CCC	CQC2011010303465426
Declaration of Conformity - CE	1SBD250005U1000
Declaration of Conformity - UKCA	1SBD250036U1000
DNV Certificate	DNV_TAE00001BV-5
EAC Certificate	EAC_RU C-FR ME77 B03544
GOST Certificate	GOST_POCCFR.ME77.B07174.pdf
LR Certificate	LRS_LR2003684TA-02
RINA Certificate	RINA_ELE240318XG
RMRS Certificate	RMRS_1802702280
UL Certificate	UL_20180227_E252354_2_1
UL Listing Card	UL_E252354

Container Information	
Package Level 1 Units	box 1 piece
Package Level 1 Width	87 mm
Package Level 1 Depth / Length	113 mm
Package Level 1 Height	47 mm
Package Level 1 Gross Weight	0.36 kg
Package Level 1 EAN	3471523102224
Package Level 2 Units	box 18 piece
Package Level 2 Width	250 mm
Package Level 2 Depth / Length	300 mm
Package Level 2 Height	315 mm
Package Level 2 Gross Weight	12.96 kg
Package Level 3 Units	864 piece

Classifications	
Object Classification	К
Code	
ETIM 4	EC000196 - Contactor relay
ETIM 5	EC000196 - Contactor relay
ETIM 6	EC000196 - Contactor relay
ETIM 7	EC000196 - Contactor relay
ETIM 8	EC000196 - Contactor relay
eClass	V11.0 : 27371001
UNSPSC	39121529

NFZ53E-22 5/5

IDEA Granular Category Code (IGCC) 4763 >> Power contactor, DC switching

E-Number (Finland) 3706433

Categories

 $Low\ Voltage\ Products\ \rightarrow\ Contactors\ \rightarrow\ Block\ Contactors\ \rightarrow\ NF\ Contactor\ Relays$

