

## NF31E-12



### General Information

<b>Extended Product Type:</b>	NF31E-12
<b>Product ID:</b>	1SBH137001R1231
<b>EAN:</b>	3471523100220
<b>Catalog Description:</b>	NF31E-12 48-130V50/60HZ-DC Contactor Relay
<b>Long Description:</b>	NF contactor relays are used for switching auxiliary and control circuits. NF contactor relays include an electronic coil interface accepting a wide control voltage $U_c$ min. ... $U_c$ max. Only four coils cover control voltages between 24...500 V 50/60 Hz or 20...500 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. NF contactor relays have built-in surge protection and do not require additional surge suppressors. - Poles: 4-pole contactor relays (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.

### Categories

Products » Low Voltage Products and Systems » Control Products » Contactors » Block Contactors

### Ordering

<b>EAN:</b>	3471523100220
<b>Minimum Order Quantity:</b>	1 piece
<b>Customs Tariff Number:</b>	85369085

### Dimensions

<b>Product Net Width:</b>	45.0 mm
<b>Product Net Depth:</b>	77.0 mm
<b>Product Net Height:</b>	86.0 mm
<b>Product Net Weight:</b>	0.270 kg

### Container Information

<b>Package Level 1 Units:</b>	1 piece
<b>Package Level 1 Width:</b>	87 mm
<b>Package Level 1 Length:</b>	79 mm
<b>Package Level 1 Height:</b>	47 mm
<b>Package Level 1 Gross Weight:</b>	0.27000 kg
<b>Package Level 1 EAN:</b>	3471523100220
<b>Package Level 2 Units:</b>	54 piece
<b>Package Level 3 Units:</b>	1296 piece

### Environmental

<b>Ambient Air Temperature:</b>	Close to Contactor for Storage -60...+80 °C Near Contactor for Operation in Free Air -40 ... +70 °C
<b>Maximum Operating Altitude Permissible:</b>	3000 m
<b>Resistance to Shock acc. to IEC 60068-2-27:</b>	Closed, Shock Direction: B1 25 g 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
<b>Resistance to Vibrations acc. to IEC 60068-2-6:</b>	5...300 Hz 4 g closed position / 2 g open position
<b>RoHS Status:</b>	Planned to follow EU Directive 2002/95/EC August 18, 2005 and amendment after 2008 Q1

**Technical**

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<b>Number of Auxiliary Contacts NO:</b>	3
<b>Number of Auxiliary Contacts NC:</b>	1
<b>Rated Control Circuit Voltage (U<sub>c</sub>):</b>	50 Hz 48...130 V 60 Hz 48...130 V DC Operation 48...130 V
<b>Terminal Type:</b>	Screw Terminals

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**Technical UL/CSA**

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<b>Tightening Torque UL/CSA:</b>	Auxiliary Circuit 11 in·lb Control Circuit 11 in·lb
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**Certificates and Declarations (Document Number)**

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<b>CB Certificate:</b>	CB_SE_70920A1M2
<b>CCC Certificate:</b>	CCC_2011010303465426
<b>cUL Certificate:</b>	UL_20091127-E252354-2-1
<b>Declaration of Conformity - CE:</b>	1SBD250166C2000
<b>DNV Certificate:</b>	DNV_E11683
<b>EAC Certificate:</b>	EAC_RU C-FR ME77 B01006
<b>GL Certificate:</b>	GL_3786612HH
<b>GOST Certificate:</b>	GOST_POCCFR.ME77.B06804.pdf
<b>LR Certificate:</b>	LRS_C1400038
<b>RINA Certificate:</b>	RINA_ELE084013XG
<b>RMRS Certificate:</b>	RMRS_1300132124
<b>RoHS Information:</b>	1SBD251014E1000

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**Classifications**

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<b>E-nummer:</b>	3211451
<b>UNSPSC:</b>	39121500

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