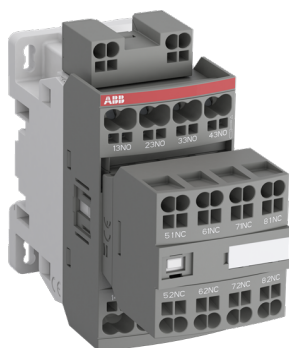


PRODUCT-DETAILS

# NF44EK-12

## NF44EK-12 48-130V50/60HZ-DC Contactor Relay



### General Information

Extended Product Type	NF44EK-12
Product ID	1SBH137005R1244
EAN	3471523153127
Catalog Description	NF44EK-12 48-130V50/60HZ-DC Contactor Relay

Long Description	<p>NF..K contactor relays are used for switching auxiliary and control circuits. NF contactor relays include an electronic coil interface accepting a wide control voltage <math>U_c</math> min. ... <math>U_c</math> 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. NF..K include Push-in Spring terminals. Only one push is all you need for extremely fast wiring: faster than ever installation, easier than ever wiring, reliable as ever connections. 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).</p>
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### Classifications

Object Classification Code	K
ETIM 4	EC000196 - Contactor relay
ETIM 5	EC000196 - Contactor relay
ETIM 6	EC000196 - Contactor relay
ETIM 7	EC000196 - Contactor relay
UNSPSC	39121500

## Container Information

Package Level 1 Units	box 1 piece
Package Level 1 Width	91 mm
Package Level 1 Depth / Length	111 mm
Package Level 1 Height	45 mm
Package Level 1 Gross Weight	0.349 kg
Package Level 1 EAN	3471523153127
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	15.705 kg
Package Level 3 Units	1080 piece

## Certificates and Declarations (Document Number)

CB Certificate	CB_SE-93051
cUL Certificate	UL_20180227_E252354_2_1
Declaration of Conformity - CE	1SBD250005U1000
DNV Certificate	DNV-GL_TAE00001BV-3
DNV GL Certificate	DNV-GL_TAE00001BV-3
GL Certificate	DNV-GL_TAE00001BV-3
Instructions and Manuals	1SBC101054M6801
RINA Certificate	RINA_ELE240318XG
RMRS Certificate	RMRS_1802702280
RoHS Information	1SBD250005U1000

## Environmental

Ambient Air Temperature	Close to Contactor for Storage -60 ... +80 °C 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	3000 m
Resistance to Vibrations acc. to IEC 60068-2-6	5 ... 300 Hz 4 g closed position / 2 g open position
RoHS Status	Following EU Directive 2011/65/EU

## Technical

Number of Auxiliary Contacts NO	4
Number of Auxiliary Contacts NC	4
Rated Operational Voltage	Main Circuit 690 V Auxiliary Circuit 690 V
Rated Frequency (f)	Auxiliary Circuit 50 / 60 Hz
Conventional Free-air Thermal Current (I <sub>th</sub> )	acc. to IEC 60947-5-1, q = 40 °C 16 A
Rated Operational Current AC-15 (I <sub>e</sub> )	(220 / 240 V) 4 A (24 / 127 V) 6 A (500 V) 2 A

	(690 V) 2 A (400 / 440 V) 3 A
Rated Short-time Withstand Current ( $I_{cw}$ )	for 0.1 s 140 A for 1 s 100 A
Maximum Electrical Switching Frequency	AC-15 1200 cycles per hour DC-13 900 cycles per hour
Rated Operational Current DC-13 ( $I_e$ )	(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
Rated Insulation Voltage ( $U_i$ )	acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V
Rated Impulse Withstand Voltage ( $U_{imp}$ )	6 kV
Maximum Mechanical Switching Frequency	6000 cycles per hour
Rated Control Circuit Voltage ( $U_c$ )	50 Hz 48 ... 130 V 50 Hz / 60 Hz 48 ... 130 V 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
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 1/2x 0.5 ... 2.5 Flexible with Insulated Ferrule 1/2x 0.5 ... 1.5 Flexible 1/2x 0.5 ... 2.5 m <sup>2</sup> Rigid 1/2x 1 ... 2.5 m <sup>2</sup>
Connecting Capacity Control Circuit	Flexible with Ferrule 1/2x 0.5 ... 2.5 m <sup>2</sup> Flexible with Insulated Ferrule 1/2x 0.5 ... 1.5 m <sup>2</sup> Flexible 1/2x 0.5 ... 2.5 m <sup>2</sup> Rigid 1/2x 1 ... 2.5 m <sup>2</sup>
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	Push-in Spring Terminals

## Dimensions

Product Net Width	45 mm
Product Net Depth / Length	110.5 mm
Product Net Height	92.3 mm
Product Net Weight	0.33 kg

## Popular Downloads

Instructions and Manuals	1SBC101054M6801
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## Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

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## Categories

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

