



## PRODUCT-DETAILS

**NS44ES-20****NS44ES-20 24V50/60HZ Contactor Relay****General Information**

<b>Extended Product Type:</b>	NS44ES-20
<b>Product ID:</b>	1SBH101004R2044
<b>EAN:</b>	3471523015203
<b>Catalog Description:</b>	NS44ES-20 24V50/60HZ Contactor Relay
<b>Long Description:</b>	NS... contactor relays are used for switching auxiliary circuits and control circuits. The NS..S contactor relays are the spring terminal version of the NS... range. - Poles: 8-pole contactor relays (mechanically-linked auxiliary contacts compliant with Annex L of IEC 60947-5-1 including the "Mechanically Linked" symbol on the contactor relay side) - Control circuit: AC operated with laminated magnet circuit - Accessories: a wide range of accessories is available.
<b>Display Name:</b>	NS44ES-20

**Ordering**

<b>Minimum Order Quantity:</b>	32 piece
<b>Customs Tariff Number:</b>	85364900

## Popular Downloads

Data Sheet, Technical Information:	1SBC100214C0202
Instructions and Manuals:	1SBC101020M9701
CAD Dimensional Drawing:	2CDC001079B0201

## Dimensions

Product Net Width:	45 mm
Product Net Depth / Length:	110.7 mm
Product Net Height:	68 mm
Product Net Weight:	0.26 kg

## Technical

Number of Auxiliary Contacts NO:	4
Number of Auxiliary Contacts NC:	4
Standards:	IEC 60947-5-1 and EN 60947-5-1, UL 508, CSA C22.2 N°14
Rated Operational Voltage:	Auxiliary Circuit 690 V Main Circuit 690 V
Rated Frequency (f):	Auxiliary Circuit 50 / 60 Hz
Conventional Free-air Thermal Current ( $I_{th}$ acc. to IEC 60947-5-1, $\Theta = 40\text{ °C}$ 10 A):	
Rated Operational Current AC-15 ( $I_e$ ):	(500 V) NC 2 (500 V) 2 A (690 V) 2 A (24 / 127 V) 6 A (220 / 240 V) 4 A (400 / 440 V) 3 A
Rated Operational Current DC-13 ( $I_e$ ):	(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
Rated Short-time Withstand Current Low Voltage ( $I_{cw}$ ):	for 0.1 s 140 A for 1 s 100 A
Rated Insulation Voltage ( $U_i$ ):	acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V acc. to UL/CSA 600 V
Rated Impulse Withstand Voltage ( $U_{imp}$ ):	Auxiliary Circuit 6 kV
Maximum Electrical Switching Frequency:	(AC-15) 1200 cycles per hour (DC-13) 900 cycles per hour
Maximum Mechanical Switching Frequency:	3600 cycles per hour
Rated Control Circuit Voltage ( $U_c$ ):	50 Hz 24 V 60 Hz 24 V
Power Loss:	at 6 A per Pole 0.1 W

<b>Operate Time:</b>	Between Coil De-energization and NC Contact Closing 7 ... 22 ms Between Coil De-energization and NO Contact Opening 5 ... 19 ms Between Coil Energization and NC Contact Opening 6 ... 18 ms Between Coil Energization and NO Contact Closing 9 ... 24 ms
<b>Mounting on DIN Rail:</b>	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
<b>Connecting Capacity Auxiliary Circuit:</b>	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1/2x 0.75 ... 1.5 mm <sup>2</sup> Rigid 1/2x 0.75 ... 2.5 mm <sup>2</sup>
<b>Connecting Capacity Control Circuit:</b>	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1/2x 0.75 ... 1.5 mm <sup>2</sup> Rigid 1/2x 0.75 ... 2.5 mm <sup>2</sup>
<b>Wire Stripping Length:</b>	Auxiliary Circuit 10 mm Control Circuit 10 mm
<b>Degree of Protection:</b>	acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20
<b>Terminal Type:</b>	Spring Terminals
<b>Product Name:</b>	Block Contactor Relay

## Technical UL/CSA

<b>Connecting Capacity Auxiliary Circuit UL/CSA:</b>	Rigid Solid 1/2x 18-14 AWG Rigid Stranded 1/2x 18-14 AWG
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## 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>Climatic Withstand:</b>	Category B according to IEC 60947-1 Annex Q
<b>Maximum Operating Altitude Permissible:</b>	Without Derating 3000 m
<b>Resistance to Shock acc. to IEC 60068-2-27:</b>	Closed, Shock Direction: C1 19 g Closed, Shock Direction: C2 16 g Open, Shock Direction: C1 8 g Open, Shock Direction: C2 13 g Shock Direction: A 20 g Shock Direction: B1 5 g Shock Direction: B2 15 g
<b>Resistance to Vibrations:</b>	3g Closed Position & 2g Open Position 5 ... 300 Hz

## Material Compliance

<b>Conflict Minerals Reporting Template (CMRT):</b>	9AKK108467A5658
<b>REACH Declaration:</b>	2CMT2021-006202
<b>RoHS Declaration:</b>	2CMT2021-006277
<b>RoHS Information:</b>	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
<b>Toxic Substances Control Act - TSCA:</b>	2CMT2023-006525
<b>WEEE B2C / B2B:</b>	Business To Business
<b>WEEE Category:</b>	5. Small Equipment (No External Dimension More Than 50 cm)

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## Certificates and Declarations

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CB Certificate:	CB_CN_32453
CCC Certificate:	CCC_2007010305248106
CQC Certificate:	CQC2007010305248106
Declaration of Conformity - CCC:	2020980304001219
Declaration of Conformity - CE:	1SBD250016U1000
Declaration of Conformity - UKCA:	1SBD250051U1000
UL Certificate:	220108-E312527A

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## Container Information

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Package Level 1 Units:	box 1 piece
Package Level 1 Width:	72 mm
Package Level 1 Depth / Length:	115 mm
Package Level 1 Height:	48 mm
Package Level 1 Gross Weight:	0.26 kg
Package Level 1 EAN:	3471523015203
Package Level 3 Units:	768 piece

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## External Classifications and Standards

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Object Classification Code:	K
ETIM 7:	EC000196 - Contactor relay
ETIM 8:	EC000196 - Contactor relay
ETIM 9:	EC000196 - Contactor relay
eClass:	V11.0 : 27371001
UNSPSC:	39121529
IDEA Granular Category Code (IGCC):	4761 >> Magnet contactor, AC-switching

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## Categories

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Products > Low Voltage Products and Systems > Control Products > Contactors > Block Contactors > NS Contactor Relays > NS

