



 PRODUCT-DETAILS

NS22ES-20

NS22ES-20 24V50/60HZ Contactor Relay



General Information

Extended Product Type:	NS22ES-20
Product ID:	1SBH101004R2022
EAN:	3471523008205
Catalog Description:	NS22ES-20 24V50/60HZ Contactor Relay
Long Description:	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 and auxiliary contacts blocks: 4-pole contactor relays, front-mounted add-on auxiliary contact blocks (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.
Display Name:	NS22ES-20

Ordering

Minimum Order Quantity:	40 piece
Customs Tariff Number:	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:	72.5 mm
Product Net Height:	68 mm
Product Net Weight:	0.22 kg

Technical

Number of Auxiliary Contacts NO:	2
Number of Auxiliary Contacts NC:	2
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

Operate Time:	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
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
Connecting Capacity Auxiliary Circuit:	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 1/2x 0.75 ... 1.5 mm ² Rigid 1/2x 0.75 ... 2.5 mm ²
Connecting Capacity Control Circuit:	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 1/2x 0.75 ... 1.5 mm ² Rigid 1/2x 0.75 ... 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:	Spring Terminals
Product Name:	Block Contactor Relay

Technical UL/CSA

Connecting Capacity Auxiliary Circuit UL/CSA:	Rigid Solid 1/2x 18-14 AWG Rigid Stranded 1/2x 18-14 AWG
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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:	Without Derating 3000 m
Resistance to Shock acc. to IEC 60068-2-27:	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
Resistance to Vibrations:	3g Closed Position & 2g Open Position 5 ... 300 Hz

Material Compliance

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

Certificates and Declarations

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

Container Information

Package Level 1 Units:	box 1 piece
Package Level 1 Width:	78 mm
Package Level 1 Depth / Length:	80 mm
Package Level 1 Height:	48 mm
Package Level 1 Gross Weight:	0.22 kg
Package Level 1 EAN:	3471523008205
Package Level 3 Units:	960 piece

External Classifications and Standards

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

Categories

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

