



PRODUCT-DETAILS

NFC22E-88

NFC22E-88 230-240V50Hz 240-260V60Hz

Contactor Relay



General Information	
Extended Product Type:	NFC22E-88
Product ID:	1SBH131001R8822
EAN:	3471523015692
Catalog Description:	NFC22E-88 230-240V50Hz 240-260V60Hz Contactor Relay
Long Description:	The NFC22E-88 is a contactor relay with 4 auxiliary contacts (2 N.O + 2 N.C) and screw terminals, used to switch auxiliary and control circuits. Within the AF platform, NFC contactors offer an optimized operating time for AC controlled applications with electromagnetic coil (control voltage : 230 ... 240 V AC 50 Hz / 240 ... 260 V AC 60 Hz). NFC contactors have a block type design and can be easily extended with add-on auxiliary contact blocks and a wide range of additionnal accessories.
Display Name:	NFC22E-88

Ordering	
Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900

Popular Downloads

Data Sheet, Technical Information:	1SBC100219C0201
Instructions and Manuals:	1SBC101027M6801
Instructions and Manuals (Part 2):	1SAC200017M0002
CAD Dimensional Drawing:	2CDC001079B0201

Dimensions

Product Net Width:	45 mm
Product Net Depth / Length:	77 mm
Product Net Height:	86 mm
Product Net Weight:	0.301 kg

Technical

Number of Main Contacts NO:	0
Number of Main Contacts NC:	0
Number of Auxiliary Contacts NO:	2
Number of Auxiliary Contacts NC:	2
Number of Poles:	4P
Standards:	IEC/EN 60947-1, IEC/EN 60947-5-1, UL 60947-1, UL 60947-5-1, CSA C22.2 No. 60947-1-13, CSA C22.2 No. 60947-5-1-14
Rated Operational Voltage:	Auxiliary Circuit 690 V
Rated Frequency (f):	Auxiliary Circuit 50 / 60 Hz Control Circuit 50 / 60 Hz Main Circuit 50 / 60 Hz
Conventional Free-air Thermal Current (I _{th}):	acc. to IEC 60947-5-1, $\Theta = 40\text{ °C}$ 16 A
Rated Operational Current AC-15 (I _e):	(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 (400 V) 0.15 A / 60 W (500 V) 0.13 A / 65 W (600 V) 0.1 A / 60 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 60947-5-1 690 V acc. to UL/CSA 600 V

Rated Impulse Withstand Voltage (U_{imp}): 6 kV

Maximum Electrical Switching Frequency: (AC-1) 0 cycles per hour
(AC-15) 1200 cycles per hour
(AC-2 / AC-4) 0 cycles per hour
(AC-3) 0 cycles per hour
(DC-13) 900 cycles per hour

Maximum Mechanical Switching Frequency: 6000 cycles per hour

Rated Control Circuit Voltage (U_c): 50 Hz 230 ... 240 V
60 Hz 240 ... 260 V

Coil Consumption: 2.3 W

Power Loss: at 6 A per Pole 0.1 W

Operate Time: Between Coil De-energization and NC Contact Closing 9 ... 20 ms
Between Coil De-energization and NO Contact Opening 4 ... 18 ms
Between Coil Energization and NC Contact Opening 7 ... 21 ms
Between Coil Energization and NO Contact Closing 10 ... 26 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 mm²
Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm²
Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm²
Rigid Solid 1/2x 1 ... 2.5 mm²
Rigid Stranded 1/2x 1 ... 2.5 mm²

Connecting Capacity Control Circuit: Flexible with Ferrule 1/2x 0.75 ... 2.5 mm²
Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm²
Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm²
Rigid Solid 1/2x 1 ... 2.5 mm²
Rigid Stranded 1/2x 1 ... 2.5 mm²

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

Recommended Screw Driver: Pozidriv PZ

Tightening Torque: Auxiliary Circuit 1.2 N·m
Control Circuit 1.2 N·m

Terminal Type: Screw 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

Tightening Torque UL/CSA: Auxiliary Circuit 11 in·lb
Control Circuit 11 in·lb

Environmental

Ambient Air Temperature: Close to Contactor for Storage -60 ... +80 °C
Near Contactor for Operation in Free Air -40 ... 70 °C
Near Contactor for Operation in Free Air (0.85 ... 1.1 U_c) -40 ... +60 °C
Near Contactor for Operation in Free Air (U_c) -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: 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

Resistance to Vibrations: 4g Closed Position & 2g Open position 5 ... 300 Hz

Pollution Degree: 3

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

A2L Certificate – UL: 9AKK108469A4893
9AKK108469A4894

BV Certificate: BV_2634H24899C1

CB Certificate: 9AKK108472A3308

CCC Certificate: CCC_2024010303656666

CCS Certificate: 9AKK108472A6694

Declaration of Conformity - CCC: 2020980303000175

Declaration of Conformity - CE: 1SBD250026U1000

Declaration of Conformity - UKCA: 1SBD250047U1000

DNV Certificate: 9AKK108470A6933

RINA Certificate: 9AKK108470A5006

UL Certificate: UL-US-2343472-0
UL-CA-2337638-0

Container Information

Package Level 1 Units: box 1 piece

Package Level 1 Width: 87 mm

Package Level 1 Depth / Length: 79 mm

Package Level 1 Height: 47 mm

Package Level 1 Gross Weight: 0.301 kg

Package Level 1 EAN: 3471523015692

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:	39121500
IDEA Granular Category Code (IGCC):	4755 >> Contactors

Accessories

Identifier	Description	Type	Qty	Unit Of Measure
1SBN010015R1001	CE5-01D0.1 Auxiliary Contact Block	CE5-01D0.1	1	piece
1SBN010015R1010	CE5-10D0.1 Auxiliary Contact Block	CE5-10D0.1	1	piece
1SBN010016R1001	CE5-01W0.1 Auxiliary Contact Block	CE5-01W0.1	1	piece
1SBN010016R1010	CE5-10W0.1 Auxiliary Contact Block	CE5-10W0.1	1	piece
1SBN010017R1001	CE5-01D2 Auxiliary Contact Block	CE5-01D2	1	piece
1SBN010017R1010	CE5-10D2 Auxiliary Contact Block	CE5-10D2	1	piece
1SBN010018R1001	CE5-01W2 Auxiliary Contact Block	CE5-01W2	1	piece
1SBN010018R1010	CE5-10W2 Auxiliary Contact Block	CE5-10W2	1	piece
1SBN010110R1010	CA4-10 Auxiliary Contact Block	CA4-10	1	piece
1SBN010110T1010	CA4-10-T Auxiliary Contact Block	CA4-10-T	1	piece
1SBN010110R1001	CA4-01 Auxiliary Contact Block	CA4-01	1	piece
1SBN010110T1001	CA4-01-T Auxiliary Contact Block	CA4-01-T	1	piece
1SBN010111R1010	CC4-10 Leading Auxiliary Contact Block	CC4-10	1	piece
1SBN010111R1001	CC4-01 Lagging Auxiliary Contact Block	CC4-01	1	piece
1SBN010120R1011	CAL4-11 Auxiliary Contact Block	CAL4-11	1	piece
1SBN010120T1011	CAL4-11-T Auxiliary Contact Block	CAL4-11-T	1	piece
1SBN010140R1222	CA4-22N Auxiliary Contact Block	CA4-22N	1	piece
1SBN070156T1000	LDC4 Additional Coil Terminal Block	LDC4	1	piece
1SBN010140R1231	CA4-31N Auxiliary Contact Block	CA4-31N	1	piece
1SBN020112R1000	TEF4-ON Frontal Electronic Timer	TEF4-ON	1	piece
1SBN020113R1000	TEF4S-ON Frontal Electronic Timer	TEF4S-ON	1	piece
1SBN010140R1240	CA4-40N Auxiliary Contact Block	CA4-40N	1	piece
1SBN010134R1011	CAL4-11K Auxiliary Contact Block	CAL4-11K	1	piece
1SBN020114R1000	TEF4-OFF Frontal Electronic Timer	TEF4-OFF	1	piece
1SBN010140R1213	CA4-13N Auxiliary Contact Block	CA4-13N	1	piece
1SBN020115R1000	TEF4S-OFF Frontal Electronic Timer	TEF4S-OFF	1	piece
1SBN110108T1000	BX4 Protective Cover	BX4	1	piece
1SBN110122T1000	BDT4 Test Block	BDT4	1	piece

Identifier	Description	Type	Qty	Unit Of Measure
1SBN010146R1240	CA4-40NK Auxiliary Contact Block	CA4-40NK	1	piece
1SBN010146R1213	CA4-13NK Auxiliary Contact Block	CA4-13NK	1	piece
1SBN070159T1000	LDC4K Additional Coil Terminal Block	LDC4K	1	piece
1SBN010160R1001	CA4-01K Auxiliary Contact Block	CA4-01K	1	piece
1SBN010160R1010	CA4-10K Auxiliary Contact Block	CA4-10K	1	piece
1SBN050410R1000	RV4-1/50 Surge Suppressor	RV4-1/50	1	piece
1SBN010160T1001	CA4-01K-T Auxiliary Contact Block	CA4-01K-T	1	piece
1SBN050410R1002	RV4-1/260 Surge Suppressor	RV4-1/260	1	piece
1SBN050400R1001	RC4-1/130 Surge Suppressor	RC4-1/130	1	piece
1SBN010160T1010	CA4-10K-T Auxiliary Contact Block	CA4-10K-T	1	piece
1SBN050400R1002	RC4-1/260 Surge Suppressor	RC4-1/260	1	piece
1SBN010146R1222	CA4-22NK Auxiliary Contact Block	CA4-22NK	1	piece
1SBN050400R1000	RC4-1/50 Surge Suppressor	RC4-1/50	1	piece
1SBN050410R1001	RV4-1/130 Surge Suppressor	RV4-1/130	1	piece
1SBN010146R1231	CA4-31NK Auxiliary Contact Block	CA4-31NK	1	piece

Categories

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