

PRODUCT-DETAILS

NFZ22E-20 NFZ22E-20 12-20VDC Contactor Relay



Extended Product Type	NFZ22E-20
Product ID	1SBH136001R2022
EAN	3471523101708
Catalog Description	NFZ22E-20 12-20VDC Contactor Relay
Long Description	 NFZ contactor relays are used for switching auxiliary and control circuits. NFZ contactor relays include an electronic coil interface accepting a wide control voltage Uc min Uc max. Only four coils cover control voltages between 24250 V 50/60 Hz or 12250 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 NFZ contactor relays allow direct control by PLC-output ≥ 24 V DC 500 mA and obtain a reduced holding coil consumption. NFZ contactor relays withstand short voltage dips and voltage sags (SEMI F47-0706 compliance) between 24250 V 50/60 Hz NFZ 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 relays need to respect the polarity on the coil terminals (A1+ and A2-) Accessories: a wide range of Accessories is available

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Subject to change without notice

CAD Dimensional 20DC0010798022 Dimensional 20DC0010798022 Dimensions 45 m Product Net Width 45 m Product Net Width 45 m Product Net Height 86 m Product Net Height 0.31 n Technical 0.31 n Number of Auxiliary 0.31 n Contacts NO 0.00 nm Number of Auxiliary 0.00 nm Contacts NO 0.00 nm Standards IEC/EN 60947-1, IEC/EN 60947-5-1, UL 908, CSA C222 No. 14- Rated Operational Voltage Auxiliary Circuit 50 / 601 Contacts NO 0.00 nm Standards IEC/EN 60947-1, IEC/EN 60947-5-1, UL 908, CSA C222 No. 14- Rated Operational Voltage Auxiliary Circuit 50 / 601 Contexts NO 0.00 nm Standards IEC/EN 60947-5-1, 0 = 40 °C 16 Rated Operational Voltage 0.00 nm Contort I, p.) (600 / 20 / 20 / 40 / 41 / 20 / 60 / 20 / 20 / 41 / 20 / 60 / 20 / 20 / 41 / 20 / 60 / 60 / 20 / 20 / 41 / 20 / 60 / 40 / 91 / 20 / 20 / 20 / 41 / 20 / 60 / 40 / 91 / 20 / 20 / 20 / 41 / 20 / 60 / 40 / 91 / 20 / 20 / 20 / 41 / 20 / 60 / 20 / 20 / 20 / 41 / 20 / 60 / 20 / 20 / 20 / 20 / 20 / 20	Popular Downloads	
Drewing Dimensions Product Net Width 45 m Product Net Depth / 77 m Length 77 m Product Net Height 86 m Product Net Height 0.311 Technical 0.311 Number of Auxiliary 0.311 Contacts NO 0.00047-1, IEC/EN 60947-5-1, UL 508, CSA C22, 2 No. 14- Rated Operational Votage Auxiliary Circuit 50 Contracts NC 38ndardis Standardis IEC/EN 60947-5-1, UL 508, CSA C22, 2 No. 14- Rated Operational Votage Auxiliary Circuit 50 Contracts NO 300 cycles of 600 Rated Operational Current (500 V) 2 (201 / 12 V) 6 (201 / 12 V) 6 (201 / 12 V) 6 (201 / 12 V) 6 (201 / 12 V) 6 (201 / 12 V) 6 (201 / 12 V) 6 (201 / 12 V) 6 (201 / 12 V) 6 (201 / 12 V) 6 (201 / 12 V) 6 (201 / 12 V) 6 (201 / 12 V) 6 (201 / 12 V) 6 (201 / 12 V) 6 (201 / 14 V) 7 (201 / 12 V) 6 (201 / 12 V) 6 <tr< th=""><th>Instructions and Manuals</th><th>1SBC101027M680</th></tr<>	Instructions and Manuals	1SBC101027M680
Product Net Width 45 m Product Net Depth / 77 m Length 77 m Product Net Height 86 m Product Net Weight 0.311 Technical 0.311 Number of Auxiliary 0.311 Contacts NO Number of Auxiliary Contacts NO Standards Standards IEC/EN 60947-5-1, UL 508, CSA C22.2 No. 14- Rated Operational Voltage Auxiliary Circuit 50 / 60 / Contexts NO Auxiliary Circuit 50 / 60 / Conventional Free air acc. to IEC 60947-5-1, 0 = 40 °C 16 Thermal Current (Ip.) acc. to IEC 60947-5-1, 0 = 40 °C 16 Rated Operational Current (600 V) 2 (21 / 127 V) 6 (22 / 127 V) 6 (24 / 127 V) 6 (22 / 127 V) 6 (24 / 127 V) 6 (22 / 127 V) 6 (24 / 127 V) 6 (22 / 127 V) 6 Maximum Electrical (AC-15) 1200 cycles per ho Switching Frequency (DC-13) 900 cycles per ho (12 V) 1 8 / 712 (10 V) 2 / 2 / 1 / 3 / 71 (12 V) 1 8 / 712 (10 V) 2 / 3 / 72 / 18 / 72 <td< th=""><th>CAD Dimensional Drawing</th><th>2CDC001079B020</th></td<>	CAD Dimensional Drawing	2CDC001079B020
Product Net Depth / 2014 Length 77 m Product Net Height 78 m Product Net Height 88 m Product Net Weight 0.311 Technical Technical Number of Auxiliary Contacts NO Number of Auxiliary Contacts NO Standards IEC/EN 60947-1, IEC/EN 60947-5-1, UL 508, CSA C22.2 No. 14- Rated Operational Vottage Auxiliary Circuit 690 Rated Frequency (f) Auxiliary Circuit 690 Rated Frequency (f) Auxiliary Circuit 690 Rated Operational Current (m) Rated Operational Current (m) Rated Operational Current (m) Rated Short-time for 0. 1s 140 Withstand Current Low Vottage (ALC-15) 1200 cycles per ho Switching Frequency (CC-13) 400 cycles per ho Switching Frequency (CC-14) 400 cycles per ho Switching Frequency (CC-15) 400 cycles pe	Dimensions	
Length 86 m Product Net Height 86 m Product Net Weight 0.31 l Technical 0.31 l Number of Auxiliary 0.31 l Contracts NO 0 Standards IEC/EN 60947-1, IEC/EN 60947-5, UL 508, CSA C22.2 No. 14- Reted Operational Voltage Auxiliary Circuit 50 / 60 l Contracts NO Auxiliary Circuit 50 / 60 l Reted Operational Voltage Auxiliary Circuit 50 / 60 l Conventional Free-air acc. to IEC 60947-51, 0 = 40 °C 16 Thermal Current (m) Reted Operational Current (500 V) 2 (24 / 127 V) 6 (220 / 240 V) 4 (440 V) 3 (260 / 127 V) 6 (220 / 240 V) 4 (440 V) 3 (260 / 127 V) 6 (220 / 240 V) 4 (440 V) 3 (260 / 127 V) 6 (220 / 240 V) 4 (440 V) 3 (20 / 240 V) 4 (460 / 24) (24 / 240 V) 3 (27 / 24 V) 6 (110 V) 0.55 A / 60 (125 V) 0.55 A / 68 (20 V) 0.27 A / 60 (250 V) 0.27 A	Product Net Width	45 mn
Product Net Weight 0.11 Technical Number of Auxiliary Contacts NO Standards IEC/EN 60947-5.1, UL 508, CSA C22.2 No. 14- Rated Operational Voltage Auxiliary Circuit 690 Rated Operational Voltage Auxiliary Circuit 690 Rated Frequency (f) Auxiliary Circuit 50 / 60 + Conventional Free-air acc. to IEC 60947-5.1, 0 = 40 °C 16 Thermal Current (I _{th}) acc. to IEC 60947-5.1, 0 = 40 °C 16 Rated Operational Current (I _{th}) (500 V) 2 Rated Short-time (500 V) 2 (202) 7240 V 14 (202) 7240 V 14 Withstand Current Low for 1 s 100 Voltage (U _m) (202 V) 14 / 12 Rated Operational Current (24 V) 8 A / 144 DC-13 (l _q) (22 V) 14 / 12 (l ₁) (22 V) 14 / 12 Rated Insulation Voltage acc. to ULCSA 600 (l ₁) acc. to ULCSA 600 (l ₁)	Product Net Depth / Length	77 mn
Technical Number of Auxiliary Contacts NO Number of Auxiliary Contacts NO Standards Reted Operational Voltage Reted Operational Voltage Reted Operational Voltage Auxiliary Circuit 50 / 60 / Conventional Free-air Thermal Current (Im) Reted Operational Current (600 V) 2 AC-15 (Im) (22 / 240 V) 4 (20 / 240 V) 4 (400 / 440 V) 3 (10 - 13 900 cycles per ho (20 / 140 V) 5 (21 / 15 A / 141 DC-15 (Im) (10 / 15 A / 60 (20 V) 15	Product Net Height	86 mn
Number of Auxiliary Contacts NO Number of Auxiliary Contacts NC Standards IEC/EN 60947-1, IEC/EN 60947-5-1, UL 508, CSA C22.2 No. 14- Rated Operational Voltage Auxiliary Circuit 690 Rated Operational Voltage Auxiliary Circuit 50 / 60 + Conventional Free-air acc. to IEC 60947-5-1, O = 40 °C 16 Thermal Current (I _{th}) (500 V) 2 Rated Operational Current (500 V) 2 (24 / 127 V) 6 (220 / 240 V) 4 (400 / 440 V) 3 (24 / 127 V) 6 Rated Short-time for 0.1 s 140 Withstand Current Low for 1 s 100 Voltage (I _{cw}) (AC-15) 1200 cycles per ho Maximum Electrical (AC-15) 1200 cycles per ho Switching Frequency (DC-31 900 cycles per ho Rated Operational Current (24 V) 4 A / 134 DC-13 (I _g) (12 V) 1 A / 72 (10 V) 1 A / 72 (10 V) 2.5 A / 60 (25 V) 0 2.7 A / 60 (250 V) 0.27 A / 60 (26 V) 0 5 A / 60 (26 V) 0 5 A / 60 Switching Frequency (26 V) 14 A / 72 (10 V) 0 15 A / 60 (26 V) 0 5 A / 60 (25 V) 0 2	Product Net Weight	0.31 kç
Contacts NO Number of Auxiliary Contacts NC Slandards IEC/EN 60947-5.1, UL 508, CSA C22.2 No. 14- Rated Operational Voltage Rated Frequency (f) Auxiliary Circuit 60 / 60 / Conventional Free-air Thermal Current (l _{th}) Rated Operational Current AC-15 (l _p) (500 V) 2 (24 / 127 V) 6 (220 / 240 V) 4 (400 / 440 V) 3 Rated Short-time Withstand Current Low Voltage (l _{cow}) for 0.1 s 140 for 1 s 100 Rated Operational Current Actional Current Low Voltage (l _{cow}) (AC-15) 1/200 cycles per ho (DC-13) 900 cycles per ho Switching Frequency Rated Operational Current Cove (AC-15) 1/200 cycles per ho (DC-13) 900 cycles per ho (DC-13) 900 cycles per ho (DC-13) 900 cycles per ho Switching Frequency (AC-15) 1/200 cycles per ho (DC-13) 900 cycles per ho Rated Insulation Voltage (U ₁) acc. to IEC 60947-5-1680 (Cycles Per ho Switching Frequency acc. to IEC 60947-5-1680 (Cycles Per ho Switching Frequency	Technical	
Contacts NC IEC/EN 60947-1, IEC/EN 60947-5-1, UL 508, CSA C22.2 No. 14- Rated Operational Voltage Auxiliary Circuit 690 Rated Frequency (f) Auxiliary Circuit 50 / 60 F Conventional Free-air acc. to IEC 60947-5.1, 0 = 40 °C 16 Thermal Current (Im) (500 V) 2 Rated Operational Current (500 V) 2 AC-15 (Ie) (24 / 127 V) 6 (220 / 240 V) 4 (400 / 440 V) 3 Rated Short-time for 0.1 s 140 Withstand Current Low for 1 s 100 Voltage (Iow) (DC-13) 900 cycles per ho Switching Frequency (DC-13) 900 cycles per ho Switching Frequency (DC-13) 900 cycles per ho (10 V) 0.55 A / 60 (12 V) 0.57 A / 60 (10 V) 0.55 A / 60 (12 V) 0.57 A / 60 (10 V) 0.55 A / 60 (10 V) 0.55 A / 60 (10 V) 0.55 A / 60 (10 V) 0.55 A / 60 (10 V) 0.55 A / 60 (10 V) 0.55 A / 60 (10 V) 0.55 A / 60 (20 V) 0.27 A / 60 (20 V) 0.27 A / 60 (20 V) 0.27 A / 60 (20 V) 0.27 A / 60 (20 V) 0.27 A / 60 (20 V) 0.15 A / 60 (20 V) 0.15 A / 60 <td>Number of Auxiliary Contacts NO</td> <td>2</td>	Number of Auxiliary Contacts NO	2
Rated Operational Voltage Auxiliary Circuit 690 Rated Frequency (f) Auxiliary Circuit 50 / 60 f Conventional Free-air acc. to IEC 60947-5-1, 0 = 40 °C 16 Thermal Current (l _{th}) (600 V) 2 Rated Operational Current (500 V) 2 AC-15 (l _g) (24 / 127 V) 6 (220 / 240 V) 4 (400 / 440 V) 3 Rated Short-time for 0.1 s 140 Withstand Current Low for 1 s 100 Voltage (l _{cw}) (DC-13) 900 cycles per ho Maximum Electrical (AC-15) 1200 cycles per ho Switching Frequency (DC-13) 900 cycles per ho Rated Operational Current (24 V) 6 A / 144 DC-13 (l _g) (12 V) 1 A / 72 (10 V) 0.55 A / 60 (125 V) 0.55 A / 60 (125 V) 0.27 A / 68 (600 V) 0.1 A / 60 (L) maximum Mechanical 610 World Bruy acc. to IEC 60947-51 690 (L) acc. to UL/CSA 600 Rated Insulation Voltage acc. to UL/CSA 600 Rated Insulation Voltage acc. to UL/CSA 600 (L) maximum Mechanical 6000 cycles per ho Switching Frequency acc. to UL/CSA 600	Number of Auxiliary Contacts NC	2
Rated Frequency (f) Auxiliary Circuit 50 / 60 H Conventional Free-air acc. to IEC 60947-5-1, 0 = 40 °C 16 Thermal Current (I _{th}) (500 V) 2 Rated Operational Current (500 V) 2 AC-15 (I _e) (24 / 127 V) 6 Rated Short-time (600 V) 2 Withstand Current Low for 0.1 s 140 Voltage (I _{cw}) (AC-15) 1200 cycles per ho Maximum Electrical (AC-15) 1200 cycles per ho Switching Frequency (DC-13) 900 cycles per ho Rated Operational Current (24 V) 2.4 DC-13 (I _b) (27 V) 1.4 / 72 (110 V) 0.55 A / 69 (220 V) 0.27 A / 60 (250 V) 0.27 A / 60 (250 V) 0.27 A / 60 (20 V) 0.27 A / 60 (20 V) 0.27 A / 60 (I) c.to IEC 60947-5-1690 (I) acc. to UL/CSA 600 (I) acc. to UL/CSA 600 (I) withstand (I) 61 Voltage (I _{limp}) 61 Couperational Current 61 (I) acc. to UL/CSA 600 (I) acc. to UL/CSA 600	Standards	IEC/EN 60947-1, IEC/EN 60947-5-1, UL 508, CSA C22.2 No. 14-13
Conventional Free-air acc. to IEC 60947-5-1, 0 = 40 °C 16 Thermal Current (I _{th}) (500 V) 2 Rated Operational Current (500 V) 2 AC-15 (I _e) (24/127 V) 6 (220 / 240 V) 4 (200 / 440 V) 3 Rated Short-time for 0.1 s 140 Withstand Current Low for 1 s 100 Voltage (I _{cw}) (DC-13) 900 cycles per ho Maximum Electrical (AC-15) 1200 cycles per ho Switching Frequency (DC-13) 900 cycles per ho Rated Operational Current (24 V) 6 A / 144 DC-13 (I _e) (12 V) 1 A / 72 (110 V) 0.55 A / 600 (220 V) 0.27 A / 60 (220 V) 0.27 A / 60 (250 V) 0.27 A / 60 (200 V) 0.13 A / 65 (600 V) 0.13 A / 65 (01 V) 0.55 A / 600 (200 V) 0.27 A / 60 (250 V) 0.27 A / 60 (200 V) 0.13 A / 65 (600 V) 0.13 A / 65 (01 V) acc. to IEC 60947-5-1690 acc. to UL/CSA 600 Rated Insulation Voltage Rated Insulation Voltage acc. to UL/CSA 600 Rated Insulation Voltage 64 Voltage (U _{imp}) Maximum Mechan	Rated Operational Voltage	Auxiliary Circuit 690 \
Thermal Current (I _{th}) (500 V) 2 Rated Operational Current (500 V) 2 AC-15 (I _e) (24 / 127 V) 6 (22 / 240 V) 4 (400 / 440 V) 3 Rated Short-time for 0.1 s 140 Withstand Current Low for 1 s 100 Voltage (I _{cw}) (DC-13) 900 cycles per ho Maximum Electrical (AC-15) 1200 cycles per ho Switching Frequency (DC-13) 900 cycles per ho Rated Operational Current (24 V) 6 A / 144 DC-13 (I _e) (48 V) 2.8 A / 134' (72 V) 1 A / 72' (110 V) 0.55 A / 69' (220 V) 0.27 A / 60' (250 V) 0.27 A / 60' (250 V) 0.27 A / 60' (250 V) 0.27 A / 60' (20 V) 0.13 A / 65' (600 V) 0.13 A / 65' (40) acc. to IEC 60947-5-1 690 acc. to UL/CSA 600 acc. to UL/CSA 600 Rated Insulation Voltage acc. to UL/CSA 60' (Voltage (U _{imp}) 61 Voltage (U _{imp}) 6000 cycles per ho Switching Frequency 61000 cycles per ho	Rated Frequency (f)	Auxiliary Circuit 50 / 60 Hz
AC-15 (I _e) (690 V) 2 (24 / 127 V) 6 (22 / 240 V) 4 (400 / 440 V) 3 Rated Short-time for 0.1 s 140 Withstand Current Low for 1 s 100 Voltage (I _{ew}) Maximum Electrical (AC-15) 1200 cycles per ho Switching Frequency (DC-13) 900 cycles per ho (DC-13) 900 cycles per ho (24 V) 6 A / 144 DC-13 (I _e) (24 V) 6 A / 144 DC-13 (I _e) (24 V) 6 A / 144 DC-13 (I _e) (27 V) 1 A / 72 (110 V) 0.55 A / 60 (250 V) 0.27 A / 60 (250 V) 0.27 A / 60 (250 V) 0.15 A / 60 (500 V) 0.1 A / 60 (U ₁) acc. to UL/CSA 600 Rated Insulation Voltage (acc. to IEC 60947-5-1 690 (U ₁) acc. to UL/CSA 600 Rated Insulation Voltage (acc. to IEC 60947-5-1 690 (U ₁) acc. to UL/CSA 600 Rated Insulation Voltage (acc. to IEC 60947-5-1 690 (U ₁) acc. to UL/CSA 600 Rated Impulse Withstand (6 H Voltage (U _{imp})	Conventional Free-air Thermal Current (I _{th})	acc. to IEC 60947-5-1, Θ = 40 °C 16 A
Withstand Current Low for 1 s 100 Voltage (I _{cw}) (AC-15) 1200 cycles per ho Maximum Electrical (AC-15) 1200 cycles per ho Switching Frequency (DC-13) 900 cycles per ho Rated Operational Current (24 V) 6 A / 144 DC-13 (I _e) (48 V) 2.8 A / 134 (110 V) 0.55 A / 60 (125 V) 0.55 A / 60 (220 V) 0.27 A / 60 (220 V) 0.27 A / 60 (250 V) 0.15 A / 60 (500 V) 0.13 A / 65 (600 V) 0.1 A / 60 (600 V) 0.1 A / 60 Rated Insulation Voltage acc. to IEC 60947-5-1 690 u(J ₁) acc. to UL/CSA 600 Rated Inpulse Withstand 6 H Voltage (U _{imp}) 6000 cycles per ho Maximum Mechanical 6000 cycles per ho Switching Frequency 200 cycles per ho Rated Control Circuit DC Operation 12 20	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
Switching Frequency (DC-13) 900 cycles per ho Rated Operational Current (24 V) 6 A / 144 DC-13 (I _e) (48 V) 2.8 A / 134 (T2 V) 1 A / 72' (110 V) 0.55 A / 60' (125 V) 0.55 A / 60' (220 V) 0.27 A / 60' (250 V) 0.27 A / 60' (250 V) 0.27 A / 60' (250 V) 0.15 A / 60' (500 V) 0.13 A / 65' (600 V) 0.1 A / 60' (500 V) 0.1 A / 60' Rated Insulation Voltage acc. to IEC 60947-5-1 690 (U _i) acc. to UL/CSA 600 Rated Impulse Withstand 6 H Voltage (U _{imp}) 6000 cycles per ho Switching Frequency CO Operation 12 20	Rated Short-time Withstand Current Low Voltage (I _{cw})	for 0.1 s 140 A for 1 s 100 A
DC-13 (I _e) (48 V) 2.8 A / 134 (72 V) 1 A / 72 (110 V) 0.55 A / 60 (125 V) 0.55 A / 60 (220 V) 0.27 A / 60 (220 V) 0.27 A / 60 (250 V) 0.27 A / 60 (250 V) 0.15 A / 60 (500 V) 0.13 A / 65 (600 V) 0.1 A / 60 Rated Insulation Voltage (U _i) Rated Impulse Withstand Voltage (U _{imp}) Maximum Mechanical Switching Frequency Rated Control Circuit DC Operation 12 20	Maximum Electrical Switching Frequency	(AC-15) 1200 cycles per hou (DC-13) 900 cycles per hou
(Ui) acc. to UL/CSA 600 Rated Impulse Withstand 6 H Voltage (Uimp) 6 Maximum Mechanical 6000 cycles per ho Switching Frequency 0 Rated Control Circuit DC Operation 12 20	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
Voltage (U _{imp}) Maximum Mechanical 6000 cycles per ho Switching Frequency Rated Control Circuit DC Operation 12 20	Rated Insulation Voltage (U _i)	acc. to IEC 60947-5-1 690 V acc. to UL/CSA 600 V
Switching Frequency DC Operation 12 20	Rated Impulse Withstand Voltage (U _{imp})	6 kV
	Maximum Mechanical Switching Frequency	6000 cycles per hou
	Rated Control Circuit Voltage (U $_{\rm c}$)	DC Operation 12 20 V

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 supplied) Connacting Capacity Flexible with Insulated Ferrule 2, 0.75 2.5 mm ² Auxiliary Circuit Flexible with Insulated Ferrule 2, 0.75 2.5 mm ² Connacting Capacity Flexible with Insulated Ferrule 2, 0.75 2.5 mm ² Connacting Capacity Flexible with Insulated Ferrule 2, 0.75 2.5 mm ² Connacting Capacity Flexible with Insulated Ferrule 2, 0.75 2.5 mm ² Control Circuit Flexible with Insulated Ferrule 2, 0.75 2.5 mm ² Control Circuit Flexible with Insulated Ferrule 2, 0.75 2.5 mm ² Wire Stripping Length Auxiliary Circuit 10 mm Degree of Protection acc. to IEC 60529, IEC 60947-1, EN 60529 Acid 72 mminals IP20 Terminal Type Screw Terminals Technical UL/CSA Rigid Solid 1/2x 18-14 AWG Connocting Capacity Rigid Solid 1/2x 18-14 AWG Auxiliary Circuit UL/CSA Rigid Solid 1/2x 18-14 AWG Control Circuit 11 mile Control Circuit 11 mile Control Circuit UL/CSA Control Circuit 14 mile Control Circuit UL/CSA Control Circuit 11 mile Control Circuit 11 mile Control Circuit 11 mile <th>Operate Time</th> <th>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</th>	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
Supplied) Connecting Capacity Control Circuit Flexible with Insulated Ferrule 1/2.0.7525 mm ² Flexible with Insulated Ferrule 2.0.7525 mm ² Flexible with Insulated Ferrule 2.0.7515 mm ² Flexible with Insulated Ferrule 2.0.7525 mm ² Flexible with Insulated Ferrule 2.0.7515 mm ² Flexible with Insulated Ferrule 2.0.7525 mm ² Flexible with Insulated Ferrule 2.0.7525 mm ² Flexible with Insulated Ferrule 2.0.7525 mm ² Flexible with Insu	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
Auxiliary Circuit Pickble with Insulated Farul 22, 07, 3, 1, 5 mm Flexible with Insulated Farul 22, 07, 3, 1, 5 mm Rigid Standed 122, 1, 2, 2, 1, 2, 1, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Mounting by Screws (not supplied)	2 x M4 screws placed diagonally
Control Circuit	Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 1/2x 0.75 2.5 mm ² Flexible with Insulated Ferrule 1x 0.75 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 1.5 mm ² Rigid Solid 1/2x 1 2.5 mm ² Rigid Stranded 1/2x 1 2.5 mm ²
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 Coll Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Coll Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Coll Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Coll Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Coll Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Coll Terminals IP20 acc. to IEC 600542-6 Resistance to Shock acc. Closed, Shock Direction: B1 25 g Shock Direction: B1 25 g Shock Direction: B1 25 g Shock Direction: C2 25 g Shock Direction:	Connecting Capacity Control Circuit	Flexible with Ferrule 1/2x 0.75 2.5 mm ² Flexible with Insulated Ferrule 1x 0.75 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 1.5 mm ² Rigid Solid 1/2x 1 2.5 mm ² Rigid Stranded 1/2x 1 2.5 mm ²
acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 Terminal Type Screw Terminals Technical UL/CSA Connecting Capacity Auxiliary Circuit 12/CSA Tightening Torque UL/CSA 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 Without Derating 3000 m Altitude Permissible Resistance to Vibrations acc. to IEC 60068-2-9 Resistance to Shock acc. Closed, Shock Direction: B1 52 59 Shock Direction: B1 52 59 Shock Direction: B1 52 59 Shock Direction: C1 25 69 Shock Direction	Wire Stripping Length	Auxiliary Circuit 10 mm Control Circuit 10 mm
Technical UL/CSA Connecting Capacity Rigid Solid 1/2x 18-14 AWG Rigid Stranded 1/2x 18-14 AWG Ri	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
Connecting Capacity Auxiliary Circuit UL/CSA Rigid Stranded 1/2x 18-14 AWG Rigid Strande 1/2 Gose 0 Contactor for Storage -60 +80 °C Resistance to Vibrations a.c. to IEC 60068-2-2 Gose 1/2 Gose 0 position / 2 g open position a.c. to IEC 60068-2-27 Closed, Shock Direction: B1 5g Shock Direction: B1 5g Shock Direction: B2 5g Shock Direction: C2 25g Shock Direction: C2 25g RoHS Status Following EU Directive 2011/65/EU Resistance Certificates and Declarations ABS_20-2060694-PDA ABS_20-2060694-PDA	Terminal Type	Screw Terminals
ULICESA Control Circuit 11 in:lt 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 C Maximum Operating Without Derating 3000 m Attitude Permissible Resistance to Vibrations acc. to IEC 60068-2-6 Resistance to Shock acc. to IEC 60068-2-7 Resistance to Shock Acc. Closed, Shock Direction: B1 5g Shock Direction: B2 15g Shock Direction: C1 25g Shock Direction: C2 25g ReHS Status Following EU Directive 2011/65/EU Certificates and Declarations ABS_20-2060694-PDA	Auxiliary Circuit UL/CSA Tightening Torque	Rigid Stranded 1/2x 18-14 AWG
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 Without Derating 3000 m Attitude Permissible S 300 Hz 4 g closed position / 2 g open position acc. to IEC 60068-2-6 Closed, Shock Direction: B1 25 g Resistance to Shock acc. Closed, Shock Direction: B1 25 g to IEC 60068-2-27 Open, Shock Direction: B1 25 g Shock Direction: C1 25 g Shock Direction: C1 25 g ReHS Status Following EU Directive 2011/65/EU	UL/CSA	Control Circuit 11 in-Ib
Near Contactor for Operation in Free Air -40 70 °C Climatic Withstand Category B according to IEC 60947-1 Annex Q Maximum Operating Without Derating 3000 m Altitude Permissible S 300 Hz 4 g closed position / 2 g open position Resistance to Vibrations 5 300 Hz 4 g closed position / 2 g open position acc. to IEC 60068-2-6 Closed, Shock Direction: B1 25 g Resistance to Shock acc. Closed, Shock Direction: B1 5 g Shock Direction: A 30 g Shock Direction: C1 25 g Shock Direction: C1 25 g Shock Direction: C2 25 g RoHS Status Following EU Directive 2011/65/EU Certificates and Declarations ABS_20-2060694-PDA	Environmental	
Maximum Operating Without Derating 3000 m Altitude Permissible 5 300 Hz 4 g closed position / 2 g open position Resistance to Vibrations 5 300 Hz 4 g closed position / 2 g open position acc. to IEC 60068-2-6 Closed, Shock Direction: B1 25 g Resistance to Shock acc. Closed, Shock Direction: B1 5 g to IEC 60068-2-27 Open, Shock Direction: B1 5 g Shock Direction: B2 15 g Shock Direction: C1 25 g Shock Direction: C2 25 g Shock Directive 2011/65/EU Certificates and Declarations ABS_20-2060694-PDA	Ambient Air Temperature	Close to Contactor for Storage -60 +80 °C Near Contactor for Operation in Free Air -40 70 °C
Altitude Permissible Resistance to Vibrations acc. to IEC 60068-2-6 Resistance to Shock acc. Closed, Shock Direction: B1 25 g Open, Shock Direction: B1 25 g Open, Shock Direction: B1 5 g Shock Direction: C1 25 g Shock Direction: C1 25 g Shock Direction: C2 25 g RoHS Status Following EU Directive 2011/65/EU Certificates and Declarations ABS Certificate ABS_20-2060694-PDA	Climatic Withstand	Category B according to IEC 60947-1 Annex Q
acc. to IEC 60068-2-6 Resistance to Shock acc. Closed, Shock Direction: B1 25 g Open, Shock Direction: B1 55 Shock Direction: B1 55 Shock Direction: B1 55 g Shock Direction: C1 25 g Shock Direction: C2 25 g RoHS Status Following EU Directive 2011/65/EU Certificates and Declarations ABS Certificate ABS_20-2060694-PDA	Maximum Operating Altitude Permissible	Without Derating 3000 m
to IEC 60068-2-27 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 RoHS Status Following EU Directive 2011/65/EU	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 Certificates and Declarations ABS_20-2060694-PDA	Resistance to Shock acc. to IEC 60068-2-27	Open, Shock Direction: B1 5 Shock Direction: A 30 g Shock Direction: B2 15 g Shock Direction: C1 25 g
ABS Certificate ABS_20-2060694-PDA	RoHS Status	
ABS Certificate ABS_20-2060694-PDA	Certificates and Declarations	

CB Certificate

CCC Certificate

CB_SE-93051M2 2020980303000185

CQC Certificate	CQC2019010303267993
Declaration of Conformity - CCC	CQC2011010303465426
Declaration of Conformity - CE	1SBD250005U1000
Declaration of Conformity - UKCA	1SBD250036U1000
DNV Certificate	DNV_TAE00001BV-5
EAC Certificate	EAC_RU C-FR ME77 B03544
GOST Certificate	GOST_POCCFR.ME77.B07174.pdf
KC Certificate	KC-HW02016-21030A
LR Certificate	LRS_LR2003684TA
RINA Certificate	RINA_ELE240318XG
RMRS Certificate	RMRS_1802702280
UL Certificate	UL_20180227_E252354_2_1
UL Listing Card	UL_E252354

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	0.31 kg
Package Level 1 EAN	3471523101708
Package Level 2 Units	box 27 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	16.74 kg
Package Level 3 Units	1296 piece

Classifications Object Classification Code	
ETIM 5	EC000196 - Contactor relay
ETIM 6	EC000196 - Contactor relay
ETIM 7	EC000196 - Contactor relay
ETIM 8	EC000196 - Contactor relay
eClass	V11.0 : 27371001
UNSPSC	39121529
IDEA Granular Category Code (IGCC)	4763 >> Power contactor, DC switching

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Categories

Low Voltage Products and Systems \rightarrow Control Products \rightarrow Contactors \rightarrow Block Contactors

