Automatic Transfer Switch Equipment N2M125-220/3(F/T)



- · PC-Class change-over switch
- Dual power supply design: power supply A (main) and power supply B (standby)
- Supports AC systems with a rated current of 80 A to 125 A
- Compliance with IEC 60947-6-1:2021

 $The \ N2M125\ series\ ensures\ reliable\ power\ for\ critical\ applications\ (e.g.,\ fire\ protection,\ telecom,\ healthcare)\ with\ fast$ switching between main and backup power sources (utility grid, generator, or battery). It features an excitation mechanism, microcomputer control, intelligent monitoring, and strong EMC, operating at 220 V without additional control power. Suitable for three-phase systems (80-125 A), it supports automatic and manual transfer, complying with IEC 60947-6-1.

Technical Data

Rated Voltage (Phase-to-Neutral) (AC) 230 V Rated Operational Voltage (Phase-to-Phase) (AC) U _e 400 V Case Grade 125 A Rated Operational Current I _e 80 A / 125 A Rated Insulation Voltage (Main Circuit) U _e 690 V Rated Insulation Voltage (Main Circuit) U _e 8 kV Rated Insulation Voltage (Control Circuit) U _e 690 V Rated Insulation Voltage (Control Circuit) U _e 690 V Rated Insulation Voltage (Control Circuit) U _e 690 V Rated Insulation Voltage (Control Circuit) U _e 4 kV Rated Short-Circuit Making Capacity U _e 10 kA Rated Short-Circuit Making Capacity U _e 17 kA Rated Frequency 50 Hz 2 Automatic Switching Time (A to B) \$ 900 ms 2 Load Disconnect Time \$ 100 ms 3P Usage Category AC-33B 3P Usage Category AC-33B 3P Usage Category Total Circuit 155-300 V AC, 50 Hz 4 Aux	M125-220/3(F/T)		220	
Rated Operational Voltage (Phase-to-Phase) (AC) U _s 400 V Case Grade 125 A 125 A Rated Operational Current I _s 80 A / 125 A Rated Insulation Voltage (Main Circuit) U _i 690 V Rated Impulse Withstand Voltage (Control Circuit) U _{in} 690 V Rated Impulse Withstand Voltage (Control Circuit) U _{in} 690 V Rated Short-Time Withstand Current I _{in} 10 kA Rated Short-Circuit Making Capacity I _{in} 17 kA Rated Short-Circuit Making Capacity 50 Hz Automatic Switching Time (A to B) \$ 900 ms Load Disconnect Time \$ 100 ms Dole Number 3P Usage Category AC-338 TSE Class PC-Class Control Circuit 155-300 VAC, 50 Hz Auxiliary Circuit 155-300 VAC, 50 Hz Auxiliary Circuit 165-200 VAC, 50 Hz Auxiliary Circuit 6000	C Electrical			
Case Grade 125 A Rated Operational Current I, 80 A / 125 A Rated Insulation Voltage (Main Circuit) U, 690 V Rated Insulation Voltage (Control Circuit) U, 690 V Rated Short-Circuit Making Capacity U, 10 kA Rated Short-Circuit Making Capacity I, 10 kA Rated Short-Circuit Making Capacity I, 10 kA Rated Frequency 50 Hz 2 Automatic Switching Time (A to B) \$ 900 ms 2 Load Disconnect Time \$ 100 ms 3 Usage Category AC-33B 3 3 Usage Category AC-33B 3 4 3 Usage Category AC-33B 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Rated Voltage (Phase-to-Neutral) (AC)		230 V	
Rated Operational Current I, 80 A / 125 A Rated Insulation Voltage (Main Circuit) U, 690 V Rated Insulation Voltage (Control Circuit) U, 690 V Rated Impulse Withstand Voltage (Control Circuit) U, 690 V Rated Impulse Withstand Voltage (Control Circuit) U _{mp} 4 kV Rated Short-Time Withstand Current I _{ov} 10 kA Rated Short-Circuit Making Capacity I _{ov} 17 kA Rated Frequency 50 Hz 4 kV Automatic Switching Time (A to B) \$ 900 ms 50 Hz Load Disconnect Time \$ 900 ms 500 ms Load Disconnect Time \$ 900 ms 600 ms Pole Number 3P 3P Usage Category AC-33B 3P 4 kV Ontrol Circuit 155-300 V AC, 50 Hz 4 kV Auxiliary Circuit 70% - 120% U, 5	Rated Operational Voltage (Phase-to-Phase) (AC)	U _e	400 V	
Rated Insulation Voltage (Main Circuit) U; 690 V Rated Impulse Withstand Voltage (Main Circuit) U _{ep} 8 kV Rated Insulation Voltage (Control Circuit) U _I 690 V Rated Insulation Voltage (Control Circuit) U _{pp} 4 kV Rated Short-Time Withstand Current I _{ow} 10 kA Rated Short-Circuit Making Capacity I _{ow} 17 kA Rated Frequency 5 0Hz Automatic Switching Time (A to B) \$ 900 ms Load Disconnect Time \$ 100 ms Pole Number 3P Usage Category AC-33B TSE Class PC-Class Control Circuit 155-300 v Ac, 50 Hz Auxillary Circuit 70% + 120% U _o , 50 Hz, I _o = 6 A Overvoltage / Undervoltage Protection Range Undervoltage Value: 165 V / Overvoltage Value: 270 V Mechanical Life 20000 times Electrical Life 6no operation per 10 s Additional Functions F (Mains to Generator) Automatic generator start Control One normally open output (3 A / AC 230 V), immediate start, 5 s stop delay Return Transfer Delay (B to A) <td< td=""><td>Case Grade</td><td></td><td>125 A</td></td<>	Case Grade		125 A	
Rated Impulse Withstand Voltage (Main Circuit) Ump 8 kV Rated Insulation Voltage (Control Circuit) Up 690 V Rated Impulse Withstand Voltage (Control Circuit) Ump 4 kV Rated Short-Time Withstand Current Impulse Withstand Current 10 kA Rated Short-Circuit Making Capacity Impulse Withstand Current 17 kA Rated Frequency 50 Hz Automatic Switching Time (A to B) \$ 900 ms Load Disconnect Time \$ 100 ms Pole Number 3P Usage Category AC-338 TSE Class PC-Class Control Circuit 155-300 V AC, 50 Hz Auxiliary Circuit 70% - 120% Up, 50 Hz, Ip 6 A Overvoltage / Undervoltage Protection Range Undervoltage Value: 165 V / Overvoltage Value: 270 V Mechanical Life 6000 times Electrical Life 6000 times Operating Cycle One operation per 10 s Additional Functions F (Mains to Generator) Additional Functions F (Mains to Generator) Return Transfer Delay (B to A) Adjustable from 0 to 30 s Enclosu	Rated Operational Current	l _e	80 A / 125 A	
Rated Insulation Voltage (Control Circuit) U _i 690 V Rated Impulse Withstand Voltage (Control Circuit) U _{inp} 4 kV Rated Short-Time Withstand Current I _{low} 10 kA Rated Short-Circuit Making Capacity I _{lom} 17 kA Rated Frequency 50 Hz Automatic Switching Time (A to B) \$900 ms Load Disconnect Time \$100 ms Pole Number 3P Usage Category AC-33B TSE Class PC-Class Control Circuit \$5-300 V AC, 50 Hz Auxiliary Circuit 70% - 120% U _o , 50 Hz, I _o = 6 A Overvoltage / Undervoltage Protection Range Undervoltage Value: 165 V / Overvoltage Value: 270 V Mechanical Life 80000 times Operating Cycle One operation per 10 s Additional Functions F (Mains to Generator) Automatic generator start/stop supported T (Communication) External communication interface Generator Start Control Generator Start Control One normally open output (3 A / AC 230 V), immediate start, 5 s stop delay Return Transfer Delay (B to A) Glass Fiber Reinforced Unsa	Rated Insulation Voltage (Main Circuit)	Ui	690 V	
Rated Impulse Withstand Voltage (Control Circuit) Ump 4 kV Rated Short-Time Withstand Current Icw 10 kA Rated Short-Circuit Making Capacity Icm 17 kA Rated Frequency 50 Hz Automatic Switching Time (A to B) ≤ 900 ms Load Disconnect Time ≤ 100 ms Pole Number 3P Usage Category AC-33B TSE Class PC-Class Control Circuit 155-300 V AC, 50 Hz Auxiliary Circuit 70% - 120% U,, 50 Hz, I _a = 6 A Overvoltage / Undervoltage Protection Range Undervoltage Value: 85 V / Overvoltage Value: 270 V Mechanical Life 20000 times Electrical Life 6000 times Operating Cycle One operation per 10 s Additional Functions F (Mains to Generator) Automatic generator start/Stop supported T (Communication) External communication interface Generator Start Control Generator Start Control One normally open output (3 A AC 230 V), immediate start, 5 s stop delay Return Transfer Delay (B to A) Glass Fiber Reinforced Unsaturated Polyester (DMC)	Rated Impulse Withstand Voltage (Main Circuit)	U_{imp}	8 kV	
Rated Short-Time Withstand Current I.w 10 kA Rated Short-Circuit Making Capacity I.m 17 kA Rated Frequency 50 Hz Automatic Switching Time (A to B) \$ 900 ms Load Disconnect Time \$ 100 ms Pole Number 3P Usage Category AC-33B TSE Class PC-Class Control Circuit 155-300 V AC, 50 Hz Auxiliary Circuit 70% - 120% U _m , 50 Hz, I _m = 6 A Overvoltage / Undervoltage Protection Range Undervoltage Value: 165 V / Overvoltage Value: 270 V Mechanical Life 20000 times Electrical Life 6000 times Operating Cycle One operation per 10 s Additional Functions F (Mains to Generator) Automatic generator start/stop supported External communication) External communication) External communication External communication One normally open output (3 A / AC 230 V), immediate start, 5 s stop delay Return Transfer Delay (B to A) Adjustable from 0 to 30 s Enclosure Material Glass Fiber Reinforced Unsaturated Polyester (DMC) Ordering Code	Rated Insulation Voltage (Control Circuit)	U_{i}	690 V	
Rated Short-Circuit Making Capacity I.m 17 kA Rated Frequency 50 Hz Automatic Switching Time (A to B) \$ 900 ms Load Disconnect Time \$ 100 ms Pole Number 3P Usage Category AC-33B TSE Class PC-Class Control Circuit 155-300 V AC, 50 Hz Auxiliary Circuit 70% - 120% U_u, 50 Hz, I_u= 6 A Overvoltage / Undervoltage Protection Range Undervoltage Value: 185 V / Overvoltage Value: 270 V Mechanical Life 20000 times Electrical Life 6000 times Operating Cycle One operation per 10 s Additional Functions F (Mains to Generator) Additional Functions F (Mains to Generator) Automatic generator start/stop supported T (Communication) External communication External communication interface Generator Start Control One normally open output (3 A / AC 230 V), immediate start, 5 s stop delay Return Transfer Delay (B to A) Adjustable from 0 to 30 s Enclosure Material Glass Fiber Reinforced Unsaturated Polyester (DMC) dor Information 220	Rated Impulse Withstand Voltage (Control Circuit)	U_{imp}	4 kV	
Rated Frequency 50 Hz Automatic Switching Time (A to B) ≤ 900 ms Load Disconnect Time ≤ 100 ms Pole Number 3P Usage Category AC-33B TSE Class PC-Class Control Circuit 155-300 V AC, 50 Hz Auxiliary Circuit 70% - 120% U₂, 50 Hz, I₂ = 6 A Overvoltage / Undervoltage Protection Range Undervoltage Value: 165 V / Overvoltage Value: 270 V Mechanical Life 80000 times Electrical Life 6000 times Operating Cycle One operation per 10 s Additional Functions F (Mains to Generator) Automatic generator start/stop supported T (Communication) External communication interface External communication interface Generator Start Control One normally open output (3 A / AC 230 V), immediate start, 5 s stop delay Return Transfer Delay (B to A) Adjustable from 0 to 30 s Enclosure Material Glass Fiber Reinforced Unsaturated Polyester (DMC) der Information Conclusion (Start Control Unsaturated Polyester) Ordering Code 220 N2M125-220/3 1212330	Rated Short-Time Withstand Current	I _{cw}	10 kA	
Automatic Switching Time (A to B) ≤ 900 ms Load Disconnect Time ≤ 100 ms Pole Number 3P Usage Category AC-33B TSE Class PC-Class Control Circuit 155-300 V AC, 50 Hz Auxiliary Circuit 70% - 120% U _e , 50 Hz, I _e = 6 A Overvoltage / Undervoltage Protection Range Undervoltage Value: 165 V / Overvoltage Value: 270 V Mechanical Life 20000 times Electrical Life 6000 times Operating Cycle One operation per 10 s Additional Functions F (Mains to Generator) Automatic generator start/stop supported T (Communication) External communication interface External communication interface Generator Start Control One normally open output (3 A / AC 230 V), immediate start, 5 s stop delay Return Transfer Delay (B to A) Adjustable from 0 to 30 s Enclosure Material Glass Fiber Reinforced Unsaturated Polyester (DMC) der Information 220 NZM125-220/3 1212330 NZM125-220/3T 1212331 NZM125-220/3T 1212331	Rated Short-Circuit Making Capacity	I _{cm}	17 kA	
Load Disconnect Time ≤ 100 ms Pole Number 3P Usage Category AC-33B TSE Class PC-Class Control Circuit 155-300 V AC, 50 Hz Auxiliary Circuit 70% - 120% U _m , 50 Hz, I _m = 6 A Overvoltage / Undervoltage Protection Range Undervoltage Value: 165 V / Overvoltage Value: 270 V Mechanical Life 20000 times Electrical Life 6000 times Operating Cycle One operation per 10 s Additional Functions F (Mains to Generator) Automatic generator start/stop supported T (Communication) External communication interface T (Communication) Generator Start Control One normally open output (3 A / AC 230 V), immediate start, 5 s stop delay Return Transfer Delay (B to A) Adjustable from 0 to 30 s Enclosure Material Glass Fiber Reinforced Unsaturated Polyester (DMC) der Information Ordering Code 220 N2M125-220/3 1212330 N2M125-220/3F 1212331 N2M125-220/3T 1212332	Rated Frequency		50 Hz	
Pole Number 3P Usage Category AC-33B TSE Class PC-Class Control Circuit 155-300 V AC, 50 Hz Auxiliary Circuit 70% - 120% U _s , 50 Hz, I _s = 6 A Overvoltage / Undervoltage Protection Range Undervoltage Value: 165 V / Overvoltage Value: 270 V Mechanical Life 20000 times Electrical Life 6000 times Operating Cycle One operation per 10 s Additional Functions F (Mains to Generator) Auxiliary Communication interface T (Communication) External communication interface External communication interface Generator Start Control One normally open output (3 A / AC 230 V), immediate start, 5 s stop delay Return Transfer Delay (B to A) Adjustable from 0 to 30 s Enclosure Material Glass Fiber Reinforced Unsaturated Polyester (DMC) ordering Code 220 N2M125-220/3 1212330 N2M125-220/3F 1212331 N2M125-220/3T 1212332	Automatic Switching Time (A to B)		≤ 900 ms	
Usage Category	Load Disconnect Time		≤ 100 ms	
TSE Class PC-Class Control Circuit 155-300 V AC, 50 Hz Auxiliary Circuit 70% - 120% U₀, 50 Hz, I₀ = 6 A Overvoltage / Undervoltage Protection Range Undervoltage Value: 165 V / Overvoltage Value: 270 V Mechanical Life 20000 times Electrical Life 6000 times Operating Cycle One operation per 10 s Additional Functions F (Mains to Generator) Automatic generator start/stop supported T (Communication) External communication interface External communication interface Generator Start Control One normally open output (3 A / AC 230 V), immediate start, 5 s stop delay Return Transfer Delay (B to A) Adjustable from 0 to 30 s Enclosure Material Glass Fiber Reinforced Unsaturated Polyester (DMC) ordering Code 220 N2M125-220/3 1212330 N2M125-220/3F 1212331 N2M125-220/3T 1212332	Pole Number		3P	
Control Circuit 155-300 V AC, 50 Hz Auxiliary Circuit 70% - 120% U₂, 50 Hz, I₂ = 6 A Overvoltage / Undervoltage Protection Range Undervoltage Value: 165 V / Overvoltage Value: 270 V Mechanical Life 20000 times Electrical Life 6000 times Operating Cycle One operation per 10 s Additional Functions F (Mains to Generator) Automatic generator start/stop supported T (Communication) External communication interface T (Communication) interface Generator Start Control One normally open output (3 A / AC 230 V), immediate start, 5 s stop delay Return Transfer Delay (B to A) Adjustable from 0 to 30 s Enclosure Material Glass Fiber Reinforced Unsaturated Polyester (DMC) der Information 220 N2M125-220/3 1212330 N2M125-220/3F 1212331 N2M125-220/3T 1212332	Usage Category		AC-33B	
Auxiliary Circuit 70% - 120% U _e , 50 Hz, I _e = 6 A Overvoltage / Undervoltage Protection Range Undervoltage Value: 165 V / Overvoltage Value: 270 V Mechanical Life 20000 times Electrical Life 6000 times Operating Cycle One operation per 10 s Additional Functions F (Mains to Generator) Automatic generator start/stop supported T (Communication) External communication interface External communication interface Generator Start Control One normally open output (3 A / AC 230 V), immediate start, 5 s stop delay Return Transfer Delay (B to A) Adjustable from 0 to 30 s Enclosure Material Glass Fiber Reinforced Unsaturated Polyester (DMC) der Information 220 N2M125-220/3 1212330 N2M125-220/3F 1212331 N2M125-220/3T 1212332	TSE Class	PC-Class		
Overvoltage / Undervoltage Protection Range Undervoltage Value: 165 V / Overvoltage Value: 270 V Mechanical Life 20000 times Electrical Life 6000 times Operating Cycle One operation per 10 s Additional Functions F (Mains to Generator) Automatic generator start/stop supported T (Communication) External communication interface External communication interface Generator Start Control One normally open output (3 A / AC 230 V), immediate start, 5 s stop delay Return Transfer Delay (B to A) Adjustable from 0 to 30 s Enclosure Material Glass Fiber Reinforced Unsaturated Polyester (DMC) der Information 220 N2M125-220/3 1212330 N2M125-220/3F 1212331 N2M125-220/3T 1212332	Control Circuit	155-300 V AC, 50 Hz		
Mechanical Life 20000 times Electrical Life 6000 times Operating Cycle One operation per 10 s Additional Functions F (Mains to Generator)	Auxiliary Circuit		70% - 120% U_e , 50 Hz, I_e = 6 A	
Electrical Life 6000 times Operating Cycle One operation per 10 s Additional Functions F (Mains to Generator)	Overvoltage / Undervoltage Protection Range		Undervoltage Value: 165 V / Overvoltage Value: 270 V	
Operating Cycle One operation per 10 s Additional Functions F (Mains to Generator) Automatic generator start/stop supported T (Communication) External communication interface External communication interface Generator Start Control One normally open output (3 A / AC 230 V), immediate start, 5 s stop delay Return Transfer Delay (B to A) Adjustable from 0 to 30 s Enclosure Material Glass Fiber Reinforced Unsaturated Polyester (DMC) der Information 220 N2M125-220/3 1212330 N2M125-220/3F 1212331 N2M125-220/3T 1212332	Mechanical Life		20000 times	
Additional Functions F (Mains to Generator) Automatic generator start/stop supported T (Communication) External communication interface Generator Start Control One normally open output (3 A / AC 230 V), immediate start, 5 s stop delay Return Transfer Delay (B to A) Adjustable from 0 to 30 s Enclosure Material Glass Fiber Reinforced Unsaturated Polyester (DMC) der Information 220 N2M125-220/3 1212330 N2M125-220/3F 1212331 N2M125-220/3T 1212332	Electrical Life		6000 times	
Automatic generator start/stop supported T (Communication) External communication interface Generator Start Control One normally open output (3 A / AC 230 V), immediate start, 5 s stop delay Return Transfer Delay (B to A) Adjustable from 0 to 30 s Enclosure Material Glass Fiber Reinforced Unsaturated Polyester (DMC) der Information 220 N2M125-220/3 1212330 N2M125-220/3F 1212331 N2M125-220/3T 1212332	Operating Cycle		One operation per 10 s	
T (Communication) External communication interface	Additional Functions		,	
Generator Start Control One normally open output (3 A / AC 230 V), immediate start, 5 s stop delay Return Transfer Delay (B to A) Adjustable from 0 to 30 s Enclosure Material Glass Fiber Reinforced Unsaturated Polyester (DMC) Information 220 N2M125-220/3 1212330 N2M125-220/3F 1212331 N2M125-220/3T 1212332			Automatic generator start/stop supported	
Generator Start Control One normally open output (3 A / AC 230 V), immediate start, 5 s stop delay Return Transfer Delay (B to A) Adjustable from 0 to 30 s Enclosure Material Glass Fiber Reinforced Unsaturated Polyester (DMC) Information 220 N2M125-220/3 1212330 N2M125-220/3F 1212331 N2M125-220/3T 1212332			,	
Return Transfer Delay (B to A) Adjustable from 0 to 30 s Enclosure Material Glass Fiber Reinforced Unsaturated Polyester (DMC) der Information 220 N2M125-220/3 1212330 N2M125-220/3F 1212331 N2M125-220/3T 1212332			External communication interface	
Enclosure Material Glass Fiber Reinforced Unsaturated Polyester (DMC) der Information 220 N2M125-220/3 1212330 N2M125-220/3F 1212331 N2M125-220/3T 1212332	Generator Start Control	(One normally open output (3 A / AC 230 V), immediate start, 5 s stop delay	
Interview Condex (or large) C	Return Transfer Delay (B to A)		Adjustable from 0 to 30 s	
Ordering Code 220 N2M125-220/3 1212330 N2M125-220/3F 1212331 N2M125-220/3T 1212332	Enclosure Material		Glass Fiber Reinforced Unsaturated Polyester (DMC)	
N2M125-220/3 1212330 N2M125-220/3F 1212331 N2M125-220/3T 1212332	der Information			
N2M125-220/3F 1212331 N2M125-220/3T 1212332	Ordering Code		220	
N2M125-220/3T 1212332	N2M125-220/3		1212330	
	N2M125-220/3F		1212331	
N2M125-220/3FT 1212333	N2M125-220/3T		1212332	
	N2M125-220/3FT		1212333	

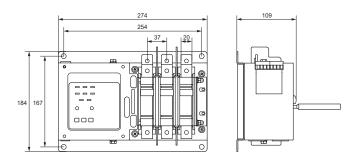


Wiring Instructions



- ① Terminal Block for Main Power A & Standby Power B
- 2 Nameplate
- Commissioning Handle
- Mechanical Indicator of Power Transfer
- Mounting Base
- 6 Standby Power Terminals
- Main Power Terminals
- Terminal Block Modules
- Load Terminals

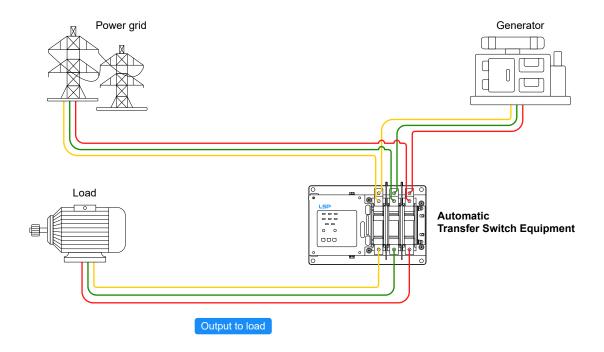
Dimensions & Packaging



Packing Information	
Units per Carton	1 pcs
Product / Inner box / Carton Weight	5.02 kg / 0.88 kg
Net / Gross Weight per Carton	5.02 kg / 5.9 kg
Dimensions (H × W × L)	[180 × 250 × 370 mm]

[mm]

Easy Installation Instructions



Automatic Transfer Switch Equipment N2M125-220/4(F/T)



- · PC-Class change-over switch
- Dual power supply design: power supply A (main) and power supply B (standby)
- Supports AC systems with a rated current of 80 A to 125 A
- Compliance with IEC 60947-6-1:2021

 $The \ N2M125\ series\ ensures\ reliable\ power\ for\ critical\ applications\ (e.g.,\ fire\ protection,\ telecom,\ healthcare)\ with\ fast$ switching between main and backup power sources (utility grid, generator, or battery). It features an excitation mechanism, microcomputer control, intelligent monitoring, and strong EMC, operating at 220 V without additional control power. Suitable for three-phase systems (80-125 A), it supports automatic and manual transfer, complying with IEC 60947-6-1.

Technical Data

Rated Voltage (Phase-to-Neutral) (AC) 230 V Rated Operational Voltage (Phase-to-Phase) (AC) U _e 400 V Case Grade 125 A Rated Operational Current I _e 80 A / 125 A Rated Insulation Voltage (Main Circuit) U _i 690 V Rated Insulation Voltage (Main Circuit) U _i 690 V Rated Insulation Voltage (Control Circuit) U _i 690 V Rated Insulation Voltage (Control Circuit) U _i 690 V Rated Insulation Voltage (Control Circuit) U _i 690 V Rated Short-Circuit Making Capacity I _e 10 kA Rated Short-Circuit Making Capacity I _e 17 KA Rated Frequency 5 0Hz 4 kV Automatic Switching Time (A to B) \$ 900 ms 5 0Hz Lautomatic Switching Time (A to B) \$ 900 ms 5 0Hz Lautomatic Switching Time (A to B) \$ 900 ms 5 0Hz Usage Category AC-338 5 PC-Class Control Circuit 155-300 VAC, 50 Hz 1,5 0 A Auxiliary Circuit 70% - 120% U, 50 Hz, I ₂ = 6 A	M125-220/4(F/T)		220	
Rated Operational Voltage (Phase-to-Phase) (AC) U _s 400 V Case Grade 125 A 182 A Rated Operational Current I _s 80 A / 125 A Rated Insulation Voltage (Main Circuit) U _i 690 V Rated Impulse Withstand Voltage (Main Circuit) U _{rep} 8 kV Rated Insulation Voltage (Control Circuit) U _{rep} 4 kV Rated Short-Gricuit Making Capacity I _{rep} 10 kA Rated Short-Circuit Making Capacity I _{rep} 17 kA Rated Short-Circuit Making Capacity I _{rep} 50 Hz Automatic Switching Time (A to B) \$ 900 ms 10 kA Load Disconnect Time \$ 100 ms 4P Usage Category AC-33B 4P Usage Category AC-33B 4P Usage Category AC-33B 4P Usage Category AC-33B 4P Usage Category Usage Category AC-33B Auxiliary Circuit 155.00 kg. 4P Usage Category Usage Category AC-33B 4P Usage Category <th>C Electrical</th> <th></th> <th></th>	C Electrical			
Case Grade 125 A Rated Operational Current I, 80 A7 125 A Rated Insulation Voltage (Main Circuit) U, 690 V Rated Insulation Voltage (Control Circuit) U, 690 V Rated Short-Circuit Making Curent I, 600 V Rated Short-Circuit Making Capacity I, 600 V Rate Short-Circuit Making Capacity I, 600 V Rate Capacity AC-338 TSE Class PC-Class Control Circuit <td>Rated Voltage (Phase-to-Neutral) (AC)</td> <td></td> <td>230 V</td>	Rated Voltage (Phase-to-Neutral) (AC)		230 V	
Rated Operational Current I _e 80 A / 125 A Rated Insulation Voltage (Main Circuit) U _I 690 V Rated Insulation Voltage (Control Circuit) U _I 690 V Rated Insulation Voltage (Control Circuit) U _I 690 V Rated Insulation Voltage (Control Circuit) U _{Im} 4 kV Rated Short-Time Withstand Current I _I 10 kA Rated Short-Circuit Making Capacity I _I 50 Hz Rated Short-Circuit Making Capacity 50 Hz 50 Hz Automatic Switching Time (A to B) ≤ 900 ms 50 Hz Load Disconnect Time 5 100 ms 4P Usage Category AC-33B 4P Usage Category AC-33B 7SC Class Control Circuit 155-30 V AC, 50 Hz Auxiliary Circuit 70% - 120% U _m , 50 Hz, L _m = 6 A Overvoltage / Undervoltage Protection Range Undervoltage Value: 165 V / Overvoltage Value: 270 V Mechanical Life 20000 times Electrical Life 60000 times Operating Cycle One operation per 10 s Additional Functions F (Mains	Rated Operational Voltage (Phase-to-Phase) (AC)	U _e	400 V	
Rated Insulation Voltage (Main Circuit) Ui 690 V Rated Impulse Withstand Voltage (Main Circuit) U _{mp} 8 kV Rated Insulation Voltage (Control Circuit) U _{mp} 690 V Rated Impulse Withstand Voltage (Control Circuit) U _{mp} 4 kV Rated Short-Circuit Making Capacity I _m 10 kA Rated Short-Circuit Making Capacity I _m 50 Hz Automatic Switching Time (A to B) \$ 900 ms Load Disconnect Time \$ 100 ms Pole Number 4P Usage Category AC-33B TSE Class PC-Class Control Circuit 155-300 V AC, 50 Hz Auxiliary Circuit 70% - 120% U _m , 50 Hz, I _m = 6 A Overvoltage / Undervoltage Protection Range Undervoltage Value: 165 V / Overvoltage Value: 270 V Mechanical Life 20000 times Electrical Life 6000 times Operating Cycle One operation per 10 s Additional Functions F (Mains to Generator) Additional Functions F (Mains to Generator) Return Transfer Delay (B to A) One normally open output (3 A / AC 230 V), immediate	Case Grade		125 A	
Rated Impulse Withstand Voltage (Main Circuit) Umpulse Withstand Voltage (Control Circuit) Umpulse Withstand Current Impulse Withstand Current Impulse Withstand Current Impulse Withstand Voltage (Control Circuit) Impulse Withstand Voltage (Control Circuit Making Capacity) Impulse Withstand Voltage (Control Circuit Making Capacity) Impulse Withstand Voltage Volta	Rated Operational Current	l _e	80 A / 125 A	
Rated Insulation Voltage (Control Circuit) U _I 690 V Rated Impulse Withstand Voltage (Control Circuit) U _{me} 4 kV Rated Short-Time Withstand Current I _{ew} 10 kA Rated Short-Circuit Making Capacity I _m 17 kA Rated Frequency 50 Hz Automatic Switching Time (A to B) \$ 900 ms Load Disconnect Time \$ 100 ms Pole Number 4P Usage Category AC-33B TSE Class PC-Class Control Circuit 155-300 V AC, 50 Hz Auxiliary Circuit 70% - 120% U _o , 50 Hz, I _o = 6 A Overvoltage / Undervoltage Protection Range Undervoltage Value: 165 V / Overvoltage Value: 270 V Mechanical Life 20000 times Electrical Life 6000 times Operating Cycle One operation per 10 s Additional Functions F (Mains to Generator) Automatic generator start/stop supported T (Communication) interface Generator Start Control One normally open output (3A / AC 230 V), immediate start, 5 s stop delay Return Transfer Delay (B to A) Adjustable from 0 to 30 s	Rated Insulation Voltage (Main Circuit)	Ui	690 V	
Rated Impulse Withstand Voltage (Control Circuit) Ump 4 kV Rated Short-Time Withstand Current I _{ov} 10 kA Rated Short-Circuit Making Capacity I _{om} 17 kA Rated Frequency 50 Hz Automatic Switching Time (A to B) ≤ 900 ms Load Disconnect Time 4P Pole Number 4P Usage Category AC-33B TSE Class PC-Class Control Circuit 155-300 V AC, 50 Hz Auxiliary Circuit 70% - 120% U _s 50 Hz, I _s = 6 A Overvoltage / Undervoltage Protection Range Undervoltage Value: 165 V / Overvoltage Value: 270 V Mechanical Life 20000 times Electrical Life 6000 times Operating Cycle One operation per 10 s Additional Functions F (Mains to Generator) Automatic generator start/stop supported T (Communication) External communication interface Start Seption of the start, 5 s stop delay Generator Start Control One normally open output (3 A / AC 230 V), immediate start, 5 s stop delay Return Transfer Delay (B to A) Glass Fiber Reinforced Unsaturated Polyester (DMC)	Rated Impulse Withstand Voltage (Main Circuit)	U _{imp}	8 kV	
Rated Short-Time Withstand Current Iow 10 kA Rated Short-Circuit Making Capacity Iom 17 kA Rated Frequency 50 Hz Automatic Switching Time (A to B) 500 ms Load Disconnect Time ≤ 100 ms Pole Number 4P Usage Category AC-33B TSE Class PC-Class Control Circuit 155-300 V AC, 50 Hz Auxiliary Circuit 70%-120% U _m , 50 Hz, I _m = 6 A Overvoltage / Undervoltage Protection Range Undervoltage Value: 165 V / Overvoltage Value: 270 V Mechanical Life 20000 times Electrical Life 6000 times Operating Cycle One operation per 10 s Additional Functions F (Mains to Generator) Automatic generator start/stop supported T (Communication) External communication interface Pone operation per 10 s Generator Start Control One normally open output (3 A / AC 230 V), immediate start, 5 s stop delay Return Transfer Delay (B to A) Adjustable from 0 to 30 s Enclosure Material Glass Fiber Reinforced Unsaturated Polyester (DMC) Torrention <	Rated Insulation Voltage (Control Circuit)	U _i	690 V	
Rated Short-Circuit Making Capacity Image: North-Circuit Making Capacity 17 kA Rated Frequency 50 Hz Automatic Switching Time (A to B) ≤ 900 ms Load Disconnect Time ≤ 100 ms Pole Number 4P Usage Category AC-33B TSE Class PC-Class Control Circuit 155-300 V AC, 50 Hz Auxillary Circuit 70% - 120% U₂, 50 Hz, I₂ = 6 A Overvoltage / Undervoltage Protection Range Undervoltage Value: 65 V / Overvoltage Value: 270 V Mechanical Life 20000 times Electrical Life 6000 times Operating Cycle 0ne operation per 10 s Additional Functions F (Mains to Generator) Automatic generator start/stop supported T (Communication) External Communication interface External Communication interface Generator Start Control One normally open output (3 A / AC 230 V), immediate start, 5 s stop delay Return Transfer Delay (B to A) 6lass Fiber Reinforced Unsaturated Polyester (DMC) Tordering Code 220 N2M125-220/4 1212430 N2M125-220/4T 1212431 </td <td>Rated Impulse Withstand Voltage (Control Circuit)</td> <td>U_{imp}</td> <td>4 kV</td>	Rated Impulse Withstand Voltage (Control Circuit)	U_{imp}	4 kV	
Rated Frequency 50 Hz Automatic Switching Time (A to B) ≤ 900 ms Load Disconnect Time ≤ 100 ms Pole Number 4P Usage Category AC-33B TSE Class PC-Class Control Circuit 155-300 V AC, 50 Hz Auxiliary Circuit 70% - 120% U₂, 50 Hz, I₂ = 6 A Overvoltage / Undervoltage Protection Range Undervoltage Value: 165 V / Overvoltage Value: 270 V Mechanical Life 6000 times Electrical Life 6000 times Operating Cycle One operation per 10 s Additional Functions F (Mains to Generator) Automatic generator start/stop supported T (Communication) External communication interface External communication interface Generator Start Control One normally open output (3 A / AC 230 V), immediate start, 5 s stop delay Return Transfer Delay (B to A) Adjustable from 0 to 30 s Enclosure Material Glass Fiber Reinforced Unsaturated Polyester (DMC) Tordering Code 220 N2M125-220/4 1212430 N2M125-220/4T 1212431 N2M125-220/4T	Rated Short-Time Withstand Current	I _{cw}	10 kA	
Automatic Switching Time (A to B) ≤ 900 ms Load Disconnect Time ≤ 100 ms Pole Number 4P Usage Category AC-33B TSE Class PC-Class Control Circuit 155-300 V AC, 50 Hz Auxiliary Circuit 70% - 120% U₅, 50 Hz, I₅ ∈ A Overvoltage / Undervoltage Protection Range Undervoltage Value: 165 V / Overvoltage Value: 270 V Mechanical Life 20000 times Electrical Life 6000 times Operating Cycle One operation per 10 s Additional Functions F (Mains to Generator) Additional Functions F (Mains to Generator) Automatic generator start/stop supported T (Communication) External communication interface Generator Start Control One normally open output (3 A / AC 230 V), immediate start, 5 s stop delay Return Transfer Delay (B to A) Adjustable from 0 to 30 s Enclosure Material Glass Fiber Reinforced Unsaturated Polyester (DMC) Ger Information Ordering Code 220 N2M125-220/4 1212430 N2M125-220/4F 1212431 N2M125-220/4T 1212432 <td>Rated Short-Circuit Making Capacity</td> <td>I_{cm}</td> <td>17 kA</td>	Rated Short-Circuit Making Capacity	I _{cm}	17 kA	
Load Disconnect Time ≤ 100 ms Pole Number 4P Usage Category AC-33B TSE Class PC-Class Control Circuit 155-300 V AC, 50 Hz Auxillary Circuit 70% - 120% U₂, 50 Hz, I₂ = 6 A Overvoltage / Undervoltage Protection Range Undervoltage Value: 165 V / Overvoltage Value: 270 V Mechanical Life 20000 times Electrical Life 6000 times Operating Cycle One operation per 10 s Additional Functions F (Mains to Generator) Additional Functions F (Mains to Generator) Additional Functions F (Mains to Generator) Automatic generator start/stop supported T (Communication) External communication interface External communication interface Generator Start Control One normally open output (3 A / AC 230 V), immediate start, 5 s stop delay Return Transfer Delay (B to A) Glass Fiber Reinforced Unsaturated Polyester (DMC) Clear Information Cordering Code 220 N2M125-220/4 1212430 N2M125-220/4F 1212431 N2M125-220/4T 1212432	Rated Frequency		50 Hz	
Pole Number 4P Usage Category AC-33B TSE Class PC-Class Control Circuit 155-300 V AC, 50 Hz Auxiliary Circuit 70% - 120% U₀, 50 Hz, I₀ = 6 A Overvoltage / Undervoltage Protection Range Undervoltage Value: 165 V / Overvoltage Value: 270 V Mechanical Life 20000 times Electrical Life 6000 times Operating Cycle One operation per 10 s Additional Functions F (Mains to Generator) Automatic generator start/stop supported T (Communication) External communication interface Generator Start Control One normally open output (3 A / AC 230 V), immediate start, 5 s stop delay Return Transfer Delay (B to A) Adjustable from 0 to 30 s Enclosure Material Glass Fiber Reinforced Unsaturated Polyester (DMC) der Information 220 N2M125-220/4 1212430 N2M125-220/4F 1212431 N2M125-220/4T 1212431	Automatic Switching Time (A to B)		≤ 900 ms	
Usage Category AC-33B TSE Class PC-Class Control Circuit 155-300 V AC, 50 Hz Auxiliary Circuit 70% - 120% U₀, 50 Hz, I₀ = 6 A Overvoltage / Undervoltage Protection Range Undervoltage Value: 165 V / Overvoltage Value: 270 V Mechanical Life 20000 times Electrical Life 6000 times Operating Cycle One operation per 10 s Additional Functions F (Mains to Generator) Automatic generator start/stop supported T (Communication) External communication interface External communication interface Generator Start Control One normally open output (3 A / AC 230 V), immediate start, 5 s stop delay Return Transfer Delay (B to A) Adjustable from 0 to 30 s Enclosure Material Glass Fiber Reinforced Unsaturated Polyester (DMC) der Information 220 N2M125-220/4 1212430 N2M125-220/4F 1212431 N2M125-220/4T 1212432	Load Disconnect Time		≤ 100 ms	
TSE Class	Pole Number		4P	
Control Circuit 155-300 V AC, 50 Hz Auxiliary Circuit 70% - 120% Ue, 50 Hz, Ie ∈ 6 A Overvoltage / Undervoltage Protection Range Undervoltage Value: 165 V / Overvoltage Value: 270 V Mechanical Life 20000 times Electrical Life 6000 times Operating Cycle One operation per 10 s Additional Functions F (Mains to Generator) Automatic generator start/stop supported T (Communication) External communication interface External communication interface Generator Start Control One normally open output (3 A / AC 230 V), immediate start, 5 s stop delay Return Transfer Delay (B to A) Adjustable from 0 to 30 s Enclosure Material Glass Fiber Reinforced Unsaturated Polyester (DMC) der Information 220 N2M125-220/4 1212430 N2M125-220/4F 1212431 N2M125-220/4T 1212431	Usage Category		AC-33B	
Auxiliary Circuit 70% - 120% U _e , 50 Hz, I _e = 6 A Overvoltage / Undervoltage Protection Range Undervoltage Value: 165 V / Overvoltage Value: 270 V Mechanical Life 20000 times Electrical Life 6000 times Operating Cycle One operation per 10 s Additional Functions F (Mains to Generator) Automatic generator start/stop supported T (Communication) External communication interface External communication interface Generator Start Control One normally open output (3 A / AC 230 V), immediate start, 5 s stop delay Return Transfer Delay (B to A) Adjustable from 0 to 30 s Enclosure Material Glass Fiber Reinforced Unsaturated Polyester (DMC) der Information 220 N2M125-220/4 1212430 N2M125-220/4F 1212431 N2M125-220/4T 1212431	TSE Class	PC-Class		
Overvoltage / Undervoltage Protection Range Undervoltage Value: 165 V / Overvoltage Value: 270 V Mechanical Life 20000 times Electrical Life 6000 times Operating Cycle One operation per 10 s Additional Functions F (Mains to Generator)	Control Circuit	155-300 V AC, 50 Hz		
Mechanical Life 20000 times Electrical Life 6000 times Operating Cycle One operation per 10 s Additional Functions F (Mains to Generator)	Auxiliary Circuit		70% - 120% $U_{\rm e}$, 50 Hz, $I_{\rm e}$ = 6 A	
Electrical Life6000 timesOperating CycleOne operation per 10 sAdditional FunctionsF (Mains to Generator) Automatic generator start/stop supportedT (Communication) External communication interfaceGenerator Start ControlOne normally open output (3 A / AC 230 V), immediate start, 5 s stop delayReturn Transfer Delay (B to A)Adjustable from 0 to 30 sEnclosure MaterialGlass Fiber Reinforced Unsaturated Polyester (DMC)der Information220N2M125-220/41212430N2M125-220/4F1212431N2M125-220/4T1212432	Overvoltage / Undervoltage Protection Range		Undervoltage Value: 165 V / Overvoltage Value: 270 V	
Operating CycleOne operation per 10 sAdditional FunctionsF (Mains to Generator) Automatic generator start/stop supportedT (Communication) External communication interfaceGenerator Start ControlOne normally open output (3 A / AC 230 V), immediate start, 5 s stop delayReturn Transfer Delay (B to A)Adjustable from 0 to 30 sEnclosure MaterialGlass Fiber Reinforced Unsaturated Polyester (DMC)der Information220N2M125-220/41212430N2M125-220/4F1212431N2M125-220/4T1212432	Mechanical Life		20000 times	
Additional Functions F (Mains to Generator) Automatic generator start/stop supported T (Communication) External communication interface Generator Start Control One normally open output (3 A / AC 230 V), immediate start, 5 s stop delay Return Transfer Delay (B to A) Adjustable from 0 to 30 s Enclosure Material Glass Fiber Reinforced Unsaturated Polyester (DMC) der Information Ordering Code N2M125-220/4 1212430 N2M125-220/4F 1212431 N2M125-220/4T 1212432	Electrical Life		6000 times	
Automatic generator start/stop supported T (Communication) External communication interface Generator Start Control One normally open output (3 A / AC 230 V), immediate start, 5 s stop delay Return Transfer Delay (B to A) Adjustable from 0 to 30 s Enclosure Material Glass Fiber Reinforced Unsaturated Polyester (DMC) der Information Ordering Code N2M125-220/4 1212430 N2M125-220/4F 12M125-220/4F 12M125-220/4T 1212432	Operating Cycle		One operation per 10 s	
T (Communication) External communication interface Generator Start Control One normally open output (3 A / AC 230 V), immediate start, 5 s stop delay Return Transfer Delay (B to A) Adjustable from 0 to 30 s Enclosure Material Glass Fiber Reinforced Unsaturated Polyester (DMC) der Information 220 N2M125-220/4 1212430 N2M125-220/4F 1212431 N2M125-220/4T 1212432	Additional Functions		,	
External communication interface Generator Start Control One normally open output (3 A / AC 230 V), immediate start, 5 s stop delay Return Transfer Delay (B to A) Adjustable from 0 to 30 s Enclosure Material Glass Fiber Reinforced Unsaturated Polyester (DMC) der Information 220 N2M125-220/4 1212430 N2M125-220/4F 1212431 N2M125-220/4T 1212432			Automatic generator start/stop supported	
Generator Start Control One normally open output (3 A / AC 230 V), immediate start, 5 s stop delay Return Transfer Delay (B to A) Adjustable from 0 to 30 s Enclosure Material Glass Fiber Reinforced Unsaturated Polyester (DMC) der Information 220 N2M125-220/4 1212430 N2M125-220/4F 1212431 N2M125-220/4T 1212432				
Return Transfer Delay (B to A) Adjustable from 0 to 30 s Enclosure Material Glass Fiber Reinforced Unsaturated Polyester (DMC) der Information 220 N2M125-220/4 1212430 N2M125-220/4F 1212431 N2M125-220/4T 1212432			External communication interface	
Enclosure Material Glass Fiber Reinforced Unsaturated Polyester (DMC) der Information 220 N2M125-220/4 1212430 N2M125-220/4F 1212431 N2M125-220/4T 1212432	Generator Start Control	(One normally open output (3 A / AC 230 V), immediate start, 5 s stop delay	
der Information Ordering Code 220 N2M125-220/4 1212430 N2M125-220/4F 1212431 N2M125-220/4T 1212432	Return Transfer Delay (B to A)		Adjustable from 0 to 30 s	
Ordering Code 220 N2M125-220/4 1212430 N2M125-220/4F 1212431 N2M125-220/4T 1212432	Enclosure Material		Glass Fiber Reinforced Unsaturated Polyester (DMC)	
N2M125-220/4 1212430 N2M125-220/4F 1212431 N2M125-220/4T 1212432	der Information			
N2M125-220/4F 1212431 N2M125-220/4T 1212432	Ordering Code		220	
N2M125-220/4T 1212432	N2M125-220/4		1212430	
	N2M125-220/4F		1212431	
N2M125-220/4FT 1212433	N2M125-220/4T		1212432	
	N2M125-220/4FT		1212433	

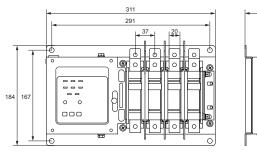


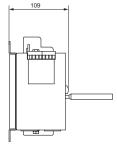
Wiring Instructions



- ① Terminal Block for Main Power A & Standby Power B
- 2 Nameplate
- 3 Commissioning Handle
- Mechanical Indicator of Power Transfer
- Mounting Base
- 6 Standby Power Terminals
- Main Power Terminals
- Terminal Block Modules
- Load Terminals

Dimensions & Packaging





Packing Information	
Units per Carton	1 pcs
Product / Inner box / Carton Weight	5.7 kg / 1.3 kg
Net / Gross Weight per Carton	5.7 kg / 7.0 kg
Dimensions (H × W × L)	[180 × 250 × 370 mm]

[mm]

Easy Installation Instructions

