

Automatic Transfer Switch Equipment N2M250-220/3(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 160 A to 250 A
- Compliance with IEC 60947-6-1:2021

The N2M250 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 (160-250 A), it supports automatic and manual transfer, complying with IEC 60947-6-1.

Technical Data

N2M250-220/3

220

IEC Electrical

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	160 A / 250 A
Rated Insulation Voltage (Main Circuit)	U_i	690 V
Rated Impulse Withstand Voltage (Main Circuit)	U_{imp}	8 kV
Rated Insulation Voltage (Control Circuit)	U_i	690 V
Rated Impulse Withstand Voltage (Control Circuit)	U_{imp}	4 kV
Rated Short-Time Withstand Current	I_{cw}	10 kA / 60 ms
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_e , 50 Hz, $I_e=10$ A
Overvoltage / Undervoltage Protection Range		Undervoltage Value: 165 V / Overvoltage Value: 270 V
Mechanical Life		8000 times
Electrical Life		3000 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

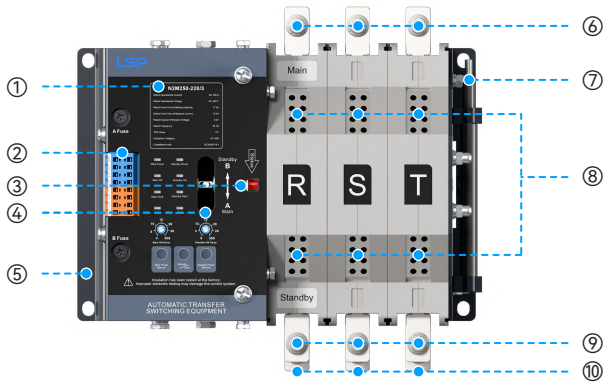
Order Information

Ordering Code	220
N2M250-220/3	2512330
N2M250-220/3F	2512331
N2M250-220/3T	2512332
N2M250-220/3FT	2512333



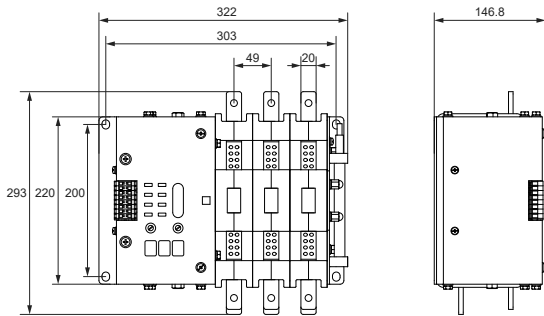
N2M250-220/3(F/T)

Wiring Instructions



- ① Nameplate
- ② Terminal Blocks for Main Power A & Standby Power B
- ③ Mechanical Indicator of Power Transfer
- ④ Commissioning Handle Socket
- ⑤ Mounting Base
- ⑥ Main Power Terminals
- ⑦ Commissioning Handle (Removable)
- ⑧ Arc Chute
- ⑨ Standby Power Terminals
- ⑩ Load Terminals

Dimensions & Packaging

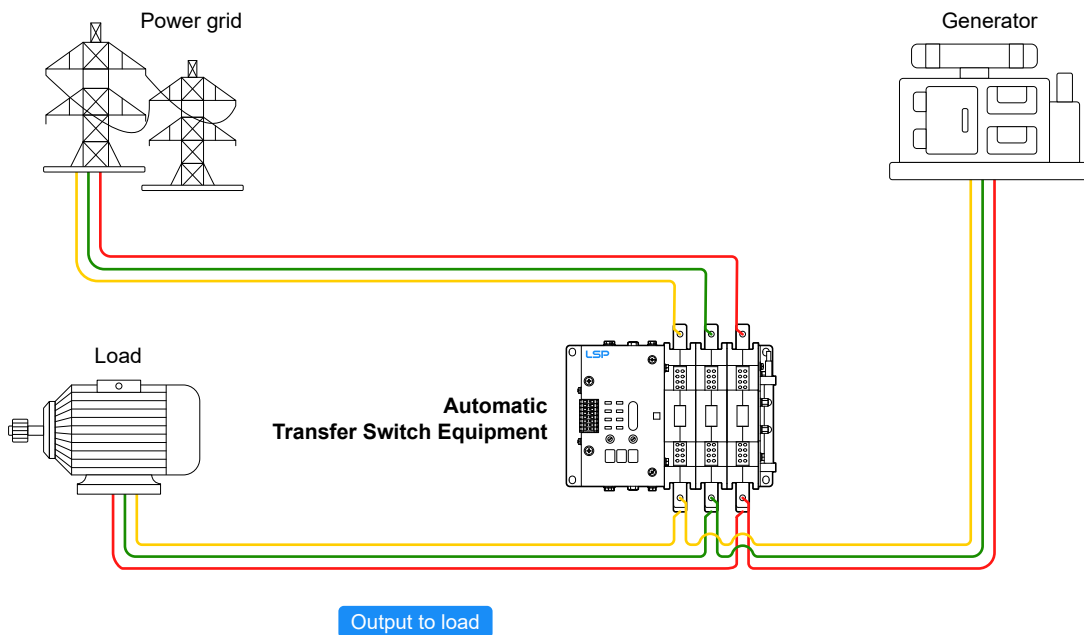


Packing Information

Units per Carton	1 pcs
Product / Inner box / Carton Weight	14.7 kg / 0.9 kg
Net / Gross Weight per Carton	14.7 kg / 15.6 kg
Dimensions (H × W × L)	[240 × 330 × 470 mm]

[mm]

Easy Installation Instructions



Automatic Transfer Switch Equipment N2M250-220/4(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 160 A to 250 A
- Compliance with IEC 60947-6-1:2021

The N2M250 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 (160-250 A), it supports automatic and manual transfer, complying with IEC 60947-6-1.

Technical Data

N2M250-220/4

220

IEC Electrical

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	160 A / 250 A
Rated Insulation Voltage (Main Circuit)	U_i	690 V
Rated Impulse Withstand Voltage (Main Circuit)	U_{imp}	8 kV
Rated Insulation Voltage (Control Circuit)	U_i	690 V
Rated Impulse Withstand Voltage (Control Circuit)	U_{imp}	4 kV
Rated Short-Time Withstand Current	I_{cw}	10 kA / 60 ms
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_e , 50 Hz, $I_e=10$ A
Overvoltage / Undervoltage Protection Range		Undervoltage Value: 165 V / Overvoltage Value: 270 V
Mechanical Life		8000 times
Electrical Life		3000 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

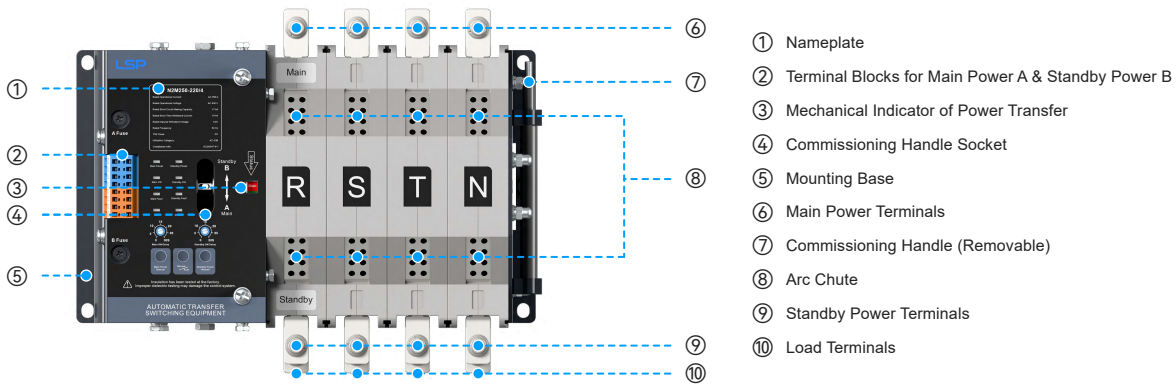
Order Information

Ordering Code	220
N2M250-220/4	2512430
N2M250-220/4F	2512431
N2M250-220/4T	2512432
N2M250-220/4FT	2512433

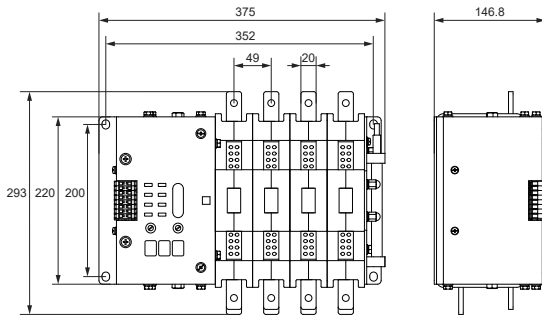


N2M250-220/4(F/T)

Wiring Instructions



Dimensions & Packaging



[mm]

Packing Information

Units per Carton	1 pcs
Product / Inner box / Carton Weight	17.0 kg / 1.0 kg
Net / Gross Weight per Carton	17.0 kg / 18.0 kg
Dimensions (H × W × L)	[240 × 330 × 520 mm]

Easy Installation Instructions

