



LV Switchgear

MNS Low-Voltage Draw-Out Switchgear

MNS low-voltage draw-out switchgear follows the internationally established MNS design, refined into a fully modular system built from standardised, serialised components. Reliable mechanical interlocks on the withdrawable units make operation safe and dependable, while the modular construction allows flexible configuration and easy maintenance. It suits AC 50(60)Hz, 400V / 660V three-phase five-wire systems up to 5000A in power plants, substations, industry, commercial buildings, airports, ports and communication centres — handling power distribution, transmission, energy conversion and reactive-power compensation. Complies with GB 7251.1 and IEC 60439.

MODEL DESIGNATION

MNS-□-□

MNS modular new-type LV switchgear
□ auxiliary-circuit scheme

□ main-circuit scheme

TECHNICAL SPECIFICATIONS

Overvoltage category	IV / III
Pollution degree	3
Rated working voltage (Ue)	400 / 660 V
Rated insulation voltage (Ui)	660 / 1000 V
Rated frequency	50 (60) Hz
Horizontal busbar — rated current	≤ 5000 A
Horizontal busbar — short-time withstand (I _{cw} , 1s)	50 / 65 / 80 kA
Horizontal busbar — peak withstand (I _{pk} , 0.1s)	105 / 140 / 176 kA
Vertical busbar — max working current	≤ 1000 A
Vertical busbar — short-time withstand	50 kA
Vertical busbar — peak withstand	105 kA
Enclosure protection	IP30 / IP40 (special on request)

NORMAL OPERATING ENVIRONMENT

- ▶ Ambient temperature -5 °C to $+40\text{ °C}$; 24-hour average $\leq +35\text{ °C}$
- ▶ Altitude $\leq 2000\text{ m}$; indoor installation
- ▶ Installation tilt $\leq 5^\circ$ from vertical
- ▶ Relative humidity $\leq 50\%$ at $+40\text{ °C}$ (higher at lower temps, e.g. 90% at $+20\text{ °C}$)
- ▶ No severe vibration or shock; free of corrosive or explosive gases and conductive dust
- ▶ Contact the manufacturer for conditions beyond the above