

High Voltage Switchgear

High Performance High Voltage
Metal-Clad Switchgear



**Powering the Future with
Precision and Control**

EDMP's metal-clad switchgear is a high-performance indoor solution for three-phase AC 50Hz power systems up to 40.5kV. Designed for substations in power plants, industrial sites, rail transit systems, and high-rise buildings, it supports single bus and sectionalized configurations, ensuring reliable power reception, distribution, and system protection with integrated control and monitoring functions.

Compatible with ABB's VD4 series and ZN40.5-85 indoor vacuum circuit breakers, EDMP's switchgear offers compact design, easy maintenance, and exceptional mechanical and electrical performance. Built for flexibility and long-term reliability, it is a trusted solution for demanding medium-voltage applications.



Energy Storage



Features & Functions

Rated Voltage	• 40.5kV
Rated Current	• 630A, 1250A, 1600A, 2000A, 3150A
Rated Frequency	• 50Hz
Rated Insultation Level	1-Munite Power Frequency Withstand Voltage • 50Hz
	Lightning Impulse Withstand Voltage • 118kV
	1-Munite Power Frequency Withstand Voltage (Circuit Breaker) • 185kV
	Lightning Impulse Withstand Voltage (Circuit Breaker) • 215kV
Rated Short-Circuit Breaking Current	• 25kA / 31.5kA / 40kA
Rated Short-Time Withstand Current	• 25kA / 31.5kA / 40kA
Rated Peak Withstand Current	• 50kA / 63kA / 80kA
Rated Short-Circuit Making Current	• 50kA / 63kA / 80kA
Duration of Rated Short-Time Withstand Current	• 4s
Rated Operating Sequence	• O-0.3s-CO-180s-CO
Degree of Protection	• IP4X
External Dimensions (Depth x Width x Height)	• 1400/1680 × 2800/3200 × 2600
Weight	• 1000kg
High Voltage Switchgear	• Copyright

Operating Conditions

Item	Specification
Ambient Temperature	-10°C ~ +45°C
Max Daily Temperature Variation	Monthly average relative humidity: ≤%90; Daily average relative humidity: ≤%95
Seismic Intensity	≤ Level 8
Pollution Level	Level III
Control and Operating Voltage	DC Power Supply: DC 220V AC Power Supply: AC 220V ±%10 (60/50Hz) (Total harmonic distortion ≤ %5)

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