

M-TECH



INTERNATIONAL



Medium Voltage Switchgear

Withdrawable Vacuum Version

IEC 62271 Series

7.2 / 12 / 15 / 20 24 kV

12.5, 25, 31.5, 40 kV

Medium Voltage Switchgear

Introduction

M-TECH has developed protection, monitoring and control solutions specifically dedicated to Medium Voltage networks for over 20 years.

Safety

Above all safety is the main feature of our "SOP"

- Insulation of each compartment is mandatory for insurance to avoid any electric, thermal and or mechanical faults.
- Voltage presence indicator system is located on the front panel. (Optional)
- Position indicators are linked to the device's physical placement. It features a convenient friendly operating system to ensure.
- Easy Installation - with uniformity of engineering dimensions.
- Ease On Site information retrieval.
- All operations should be carried out from the "Front Door" with the Door closed.

Reliability

To obtain maximum and optimum reliability:

- All operational solutions are in compliance and conformity with following standards.
 - IEC 62271-100
 - IEC 62271-102
 - IEC 62271-200
 - IEC 60694
 - P-44 : 96
- Design is to the accurate and exacting 3 Dimensional computer graphic techniques.
- Manufacturing and testing has been carried out in accordance and compliance with ISO 9001-2008 quality standards.

Simplicity

We have endeavored to design and produce a system that puts emphasis on simplicity and easy to operate and maintain.

- Ease On Site information retrieval
- Compartmentalized MV parts (Earthed Metallic Partitions)

Details

	INDUSTRIAL PANELS MT-01	INCOMING PANEL MT-02	OUTGOING PANEL MT-03
VACUUM CIRCUIT BREAKER (VCB)	VAA17 / 506-2 , RATED CURRENT = 630A, RATED SHORT CIRCUIT BREAKING CURRENT = 12.5KA, RATED 95/36/12KV BIL	VA17 / 8025-2, RATED CURRENT = 2500A, RATED SHORT CIRCUIT BREAKING CURRENT = 31.5KA / 3Sec,RATED 95/36/12KV BIL	VA17 / 8012-2, RATED SHORT CIRCUIT BREAKING CURRENT = 31.5KA / 3Sec,RATED 95/36/12KV BIL
CURRENT TRANSFORMERS (CT`S)	PROTECTION RATIO: 5/400:200A, Ith.=25KA, BURDEN: 15VA, ACC. CL:5P20 METERING 5/200,400 ,100A, Ith.=12.5KA, BURDEN: 10VA, ACC. CL:1.0M5 RATED 95/36/12KV BIL	PROTECTION AND METERING 1200-5/5/2400A, CORE 1 = 15VA, 5P20, CORE 2 = 10VA, CL.1M1 ,5 (Therm.) 25KA, (1 Dyn)=63KA, 12KV, 50Hz RATED 95/36/12KV BIL	PROTECTION AND METERING 400-5/5/200A, CORE 1 = 15VA, 5P20, CORE 2 = 10VA, CL.1M1 ,5 (Th.) 25KA, (1 Dyn)=63KA, 12KV, 50Hz RATED 95/36/12KV BIL
POTENTIAL TRANSFORMER (PT`S)	RATIO: 11KV/ $\sqrt{110}$ /3V/ $\sqrt{3}$, RATED 95/36/12KV BIL	RATIO: 11KV/ $\sqrt{110}$ /3V/ $\sqrt{3}$, BURDEN: 100VA, ACC. CL:1.0, RATED 95/36/12KV BIL	-
RELAYS	DIGITAL O/C & E/F, TYPE MIF-II,	CDG 61, TRIPPLE ELEMENT O/C & E/F RELAY. CDG1 21-POLE AC SERIES TRIP BACK UP EARTH FAULT RELAY	CDG 61, TRIPPLE ELEMENT O/C & E/F RELAY.

