

## TIEPCO – MEDIUM VOLTAGE SWITCHGEAR

The TIEPCO Medium Voltage Metal clad & Metal enclosed Switchgear conforms to the latest standard and is designed and manufactured utilizing the in house expertise and state of the art technology, fully taking into account the present and future power system requirement.

### Characteristics

- Metal-clad, air-insulated switchgear.
- Suitable for medium voltage distribution.
- Guaranteed arc-proof units.
- Factory-tested for indoor installations.
- Tested in accordance with the main international Standards.
- Wide range of functional units available for all installation solutions.
- Compartments segregated by metallic partitions.
- Modular structure, easily built-up.
- Highly effective use of space.
- Start-up, maintenance and service operations can be carried out from the front.
- Apparatus handling with the door closed.
- Units can be installed against the wall.
- Complete with mechanical safety interlocks.
- Earthing switch with full making capacity.
- Maximum service continuity guaranteed.
- Main Busbar rating up to 4000A
- Up to 40KA, indoor or outdoor installation,
- High reliability as designed to the excessive temperature of the region.



- Easy handling as control switches and monitoring equipment are installed at a height appropriate for user.
- Flexibility of design, as cable entry can be from bottom.

### Feature Details:

<b>Rated voltage Ur (max)</b>	kV	7.2	17.5
<b>Rated insulation voltage</b>	kV	7.2	17.5
<b>Rated power frequency withstand voltage</b>	kV / 1min	20	38
<b>Rated lightning impulse withstand voltage</b>	kV	60	95
<b>Rated frequency</b>	Hz	60	60
<b>Rated short-time withstand current I<sub>k</sub> 1s, 2s, 3s</b>	kA	20, 25, 31.5, 40	20, 25, 31.5, 40
<b>Peak current I<sub>pk</sub></b>	kA	100	100
<b>Internal arc withstand current</b>	kA 1s	40	40
<b>Main busbar rated current I<sub>r</sub> (max)</b>	A	4000	4000
<b>Feeder rated current I<sub>r</sub> (max)</b>	A	630 1250 1600 2000 2500 3150	630 1250 1600 2000 2500 3150
<b>Feeder rated current with forced ventilation</b>	A	3600 4000	3600 4000

## Other Important Features:

<b>Primary Electrical Parameters</b>	
Insulated Busbar	YES
Loss of service continuity	LSC 2B
Internal arc classified	IAC A FLR
Partition class	PM
<b>Mechanical Parameters</b>	
Protection degree outer cover (IEC 60529)	IP4X
Protection degree inner partitions (IEC 60529)	IP20
Ambient temperature (IEC 60694)	-5 °C to +40 °C
Painting color	RAL 7035 / RAL 7038