

F.T.M.C. Switchgear & Controlgear System

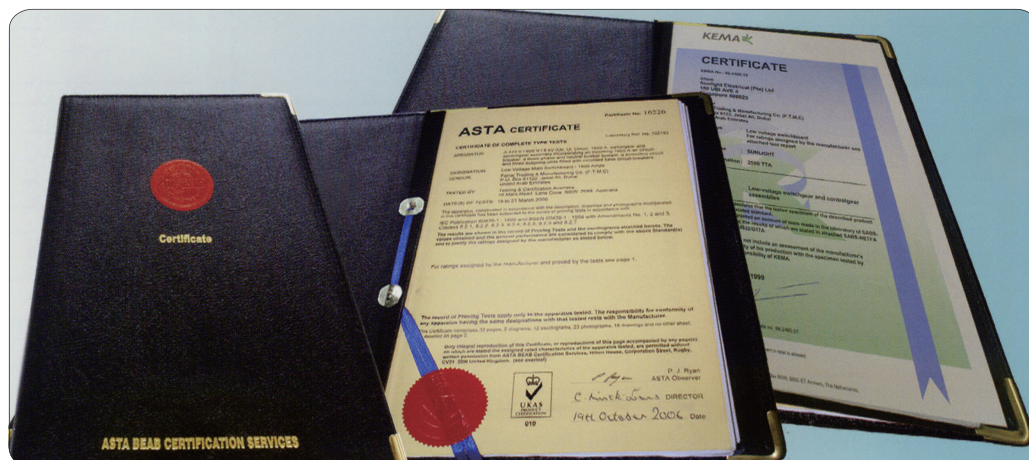


FTMC provides an extensive low voltage electrical equipment package to cover most applications. Due to the adaptability of FTMC is modular systems, many of the equipment or systems can easily be supplied and integrated in the same enclosure .

FTMC offers the complete range form packaged sub-stations main boards with nominal ratings from 800A to 6400 A. Incoming feeder sections and bus-coupler arrangements are available for rated current up to 6400A. Full flexibility of choice is offered in the selection of electrical equipment with regard to brand, make and type of breakers for fixed, withdrawal, etc.

Rating Table- Type- TESTED Range of Assemblies(TTA)*

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All FTMC L.V. Switchgear has been fully type- tested according to specifications and requirements of latest IEC 61439-1 & 2.it conforms to major markets specification in the world.

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The following tests have been successfully carried out at independent test laboratories by ASTA & KEMA.

Further specific tests are also performed and verified by local testing body like PSB (Productivity and Standards Board of Singapore) for some local installations:

- Verification of temperature-rise limits
- Verification of dielectric properties
- Verification of short-circuit withstand strength
- Verification of the effectiveness of protective circuit
- Verification of the clearances and creepage distances
- Verification of mechanical operation
- Verification of degree of protection
- Verification of electromagnetic compatibility
- Verification of the resistance of insulating material to abnormal heat and fire

The busbar system and its operating temperature is designed and tested for below 80 degree temp rise i.e. 80K for both vertical and horizontal placements of breakers in both direct and reverse feeding, and ingress protection up to IP43, for FDB, SMDB, IP54 for MDB.

complete Switchgear is certified for electromagnetic compatibility by ASTA & KEMA. certification services.

Rating Table-Tested Range of Assemblies (TTA)*

Rated current	Short time withstand (Icw)	Configuration
800 Amp	50/1 secs	Single support
1250 Amp	50/1 secs	Single support
1600 Amp	50 / 3 secs and 80/1 secs	Single support
2000 Amp	65/1 secs	Single support
2500 Amp	65/3 secs	Single support
3200 Amp	80/1 secs	Single support
4000 Amp	80/1 secs	Single support
5000 Amp	100 /1 secs	Single support
6400 Amp	100/1 secs	Single support

*Updated at the time of publication. Please contact us for an updated list.

Busbar

Tinned copper with 100% full-sized neutral (no matt-black copper is used within board)

Finishing

Powder coated texture finishing to RAL 7032 (light beige). A wide choice of colours is also available upon request.

Forms of Separation

Form 2, 3 & 4 constructions up to Form 4 - Type 7-

Entry

Top and bottom cable and busduct entry with removable cable entry gland plates or insulated boards.