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Control and Relay Protection Panel Model MT-CRP

Manufactured by MANTRA SWITCHGEAR CO., LTD.
Licensed Partner of SIEMENS

Approved
Partner

SIVACON S8
SIMOPRIME WORLD
SIMOPRIME A4

SIEMENS



Control and Relay Protection Panel Model MT-CRP



Application

The Control and Relay Protection Panel model MT-CRP is designed for :

- Installation of protection relays and control devices for control and protection of electrical equipment in switchyard from 33kV upto 500kV system
- Installation of Sub-Station and Automation (SAS) or Sub-Station Control and Monitoring System (SCMS) equipment
- Installation of Fault Recording System (FRS)
- Installation of interfacing devices
- Installation of Remote Terminal Unit (RTU) equipment
- Installation of Control and Programmable Logic Control (PLC) equipment



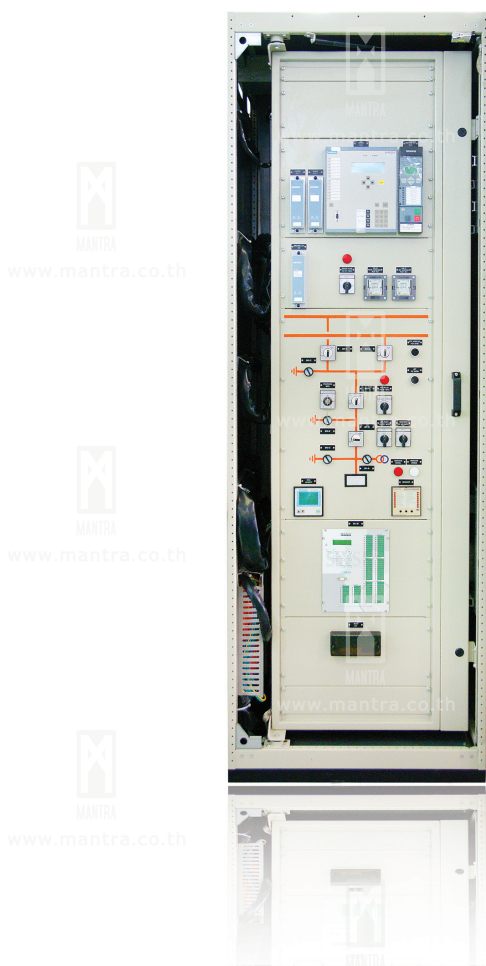
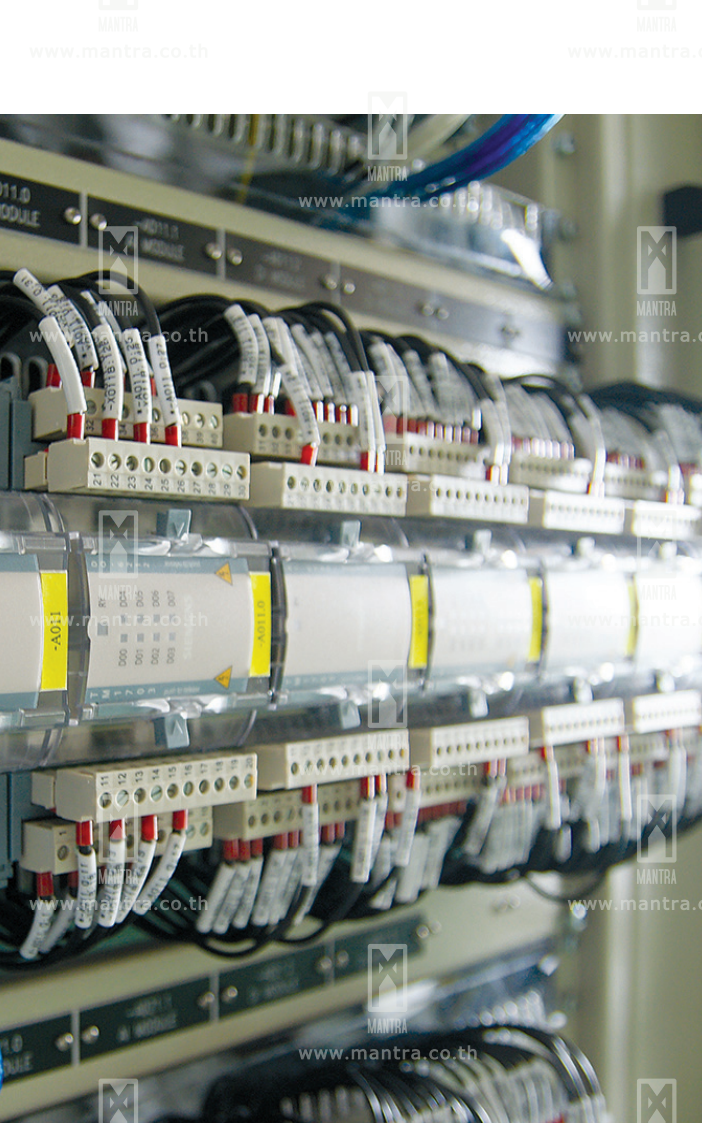
Design Features of the Panels

Both Swing-Rack and Duplex designs are available to house all control and protection devices, including RTU, transducers, sub-station, automation, fault recording, interposing and synchronizing devices.

Users can opt for the type which suits the required application and space availability.

- **Swing-Rack Design :** This front-access panel, contains door with swingrack that swings open to 120°, minimum.
- **Duplex Design :** The double-access, panel can be serviced from both front and rear doors. Equipment could be installed on the plates of both sides.





System Protection Design and Type of Relay Used

The system protection is designed for the following Typical :

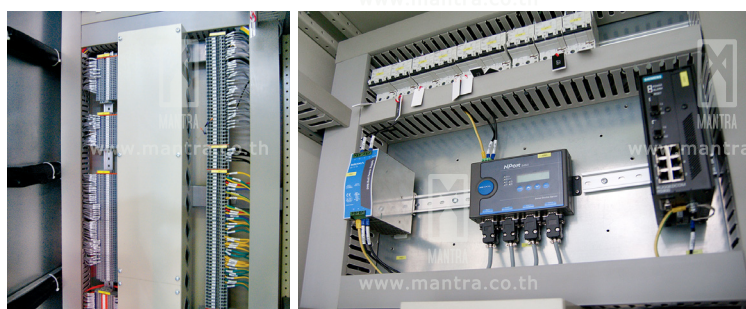
- Line Protection
- Bus Bar Protection
- Transformer Protection
- Bus Coupler Protection
- Breaker Failure Protection

The specifications of MT-CRP conform to the requirements of Electricity Generating Authority of Thailand (EGAT), Metropolitan Electricity Authority (MEA), Provincial Electricity Authority (PEA) and other universal standards.

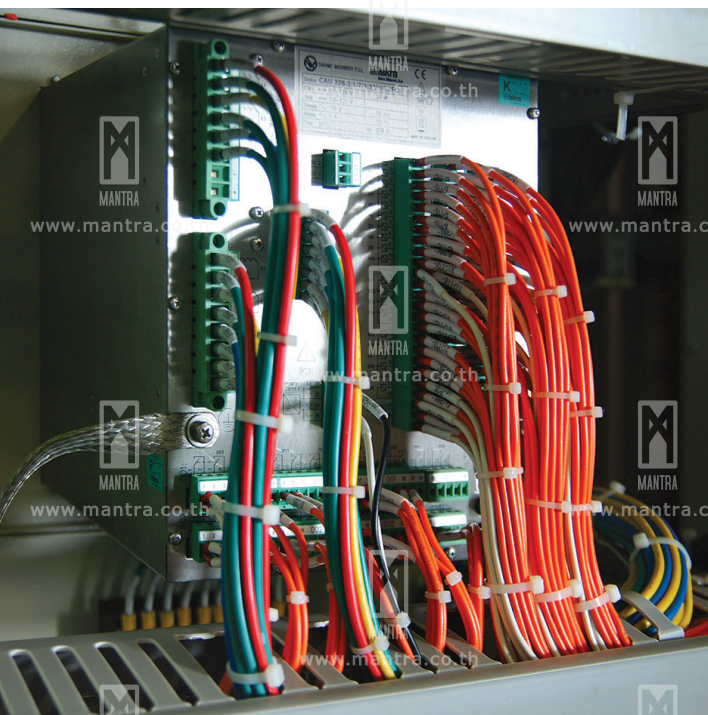
Special features can be provided, as option.

SIEMENS SIPROTEC Relay Families are the choices for MT-CRP. With its innovative protection technology, the prominent features include :

- Compact design and lower overall costs due to integration of many functions into one relay
- High availability even with less maintenance due to integral self-monitoring
- No drift (aging) of measuring characteristics due to fully numerical processing
- High measuring accuracy due to digital filtering and optimized measuring algorithms
- Many integrated add-on functions (i.e. for load-monitoring, event/fault recording and thermal monitoring)
- Local operation keypad and display designed to modern ergonomic criteria
- Easy and reliable read-out information via serial interfaces with PC, locally or remotely
- Possibility to communicate with higher-level control systems using standardized protocols via Ethernet communication



Spacious cable ducts for external cable arrangement.



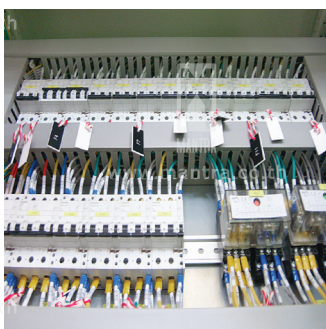
Workmanship

The panels are made of high-grade steels and fabricated by skilled workers. Wiring is done in clean area in order to prevent the dirt and dust contamination into the equipment. Wiring procedures conform to the IEC requirements, with fine-quality materials and accessories used. All cables are marked with cable markers, accommodated with connectors (pin type or ring type as per equipment). Marking system is generally, based on the factory standards but can be adapted to meet special requirements.

Services

The following services can be provided to accompany the complete functions of panel :

- Engineering Design
- Setting and Programming of Relays
- Setting the Calculation Studies of Relays
- Testing and Commissioning





Accreditations

- ISO 9001 : Quality Management System
- ISO 14001 : Environmental Management System
- ISO 45001 : Occupational Health and Safety Management System



■ Certificates ISO 9001, 14001, 45001



Reference of Users

- Electricity Generating Authority of Thailand (EGAT)
- Metropolitan Electricity Authority (MEA)
- Provincial Electricity Authority (PEA)
- Myanmar Electric Power Enterprise (MEPE)

■ MANTRA : Value-Added Reseller (VAR) Partner of Siemens EM EA PRO



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MANTRA SWITCHGEAR CO.,LTD.

Production Base

104/59 Moo 12, Bangpla, Bangplee, Samutprakan 10540, THAILAND

+66 2174 6088

+66 2174 6089

sales@mantra.co.th

QC Workshop & Sales Office

56/14-15 Moo 3, Soi Bang Pla 2, Bang Pla, Bangplee, Samutprakan 10540, THAILAND

+66 2056 1415, +66 2056 1419, +66 2056 1489

+66 2056 1455

contact@mantra.co.th

Back Office

33/17 Moo 3, Soi Bang Pla 2, Bang Pla, Bangplee, Samutprakan 10540, THAILAND

+66 2115 6879, +66 2115 6881

+66 2115 6880

alee@mantra.co.th

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