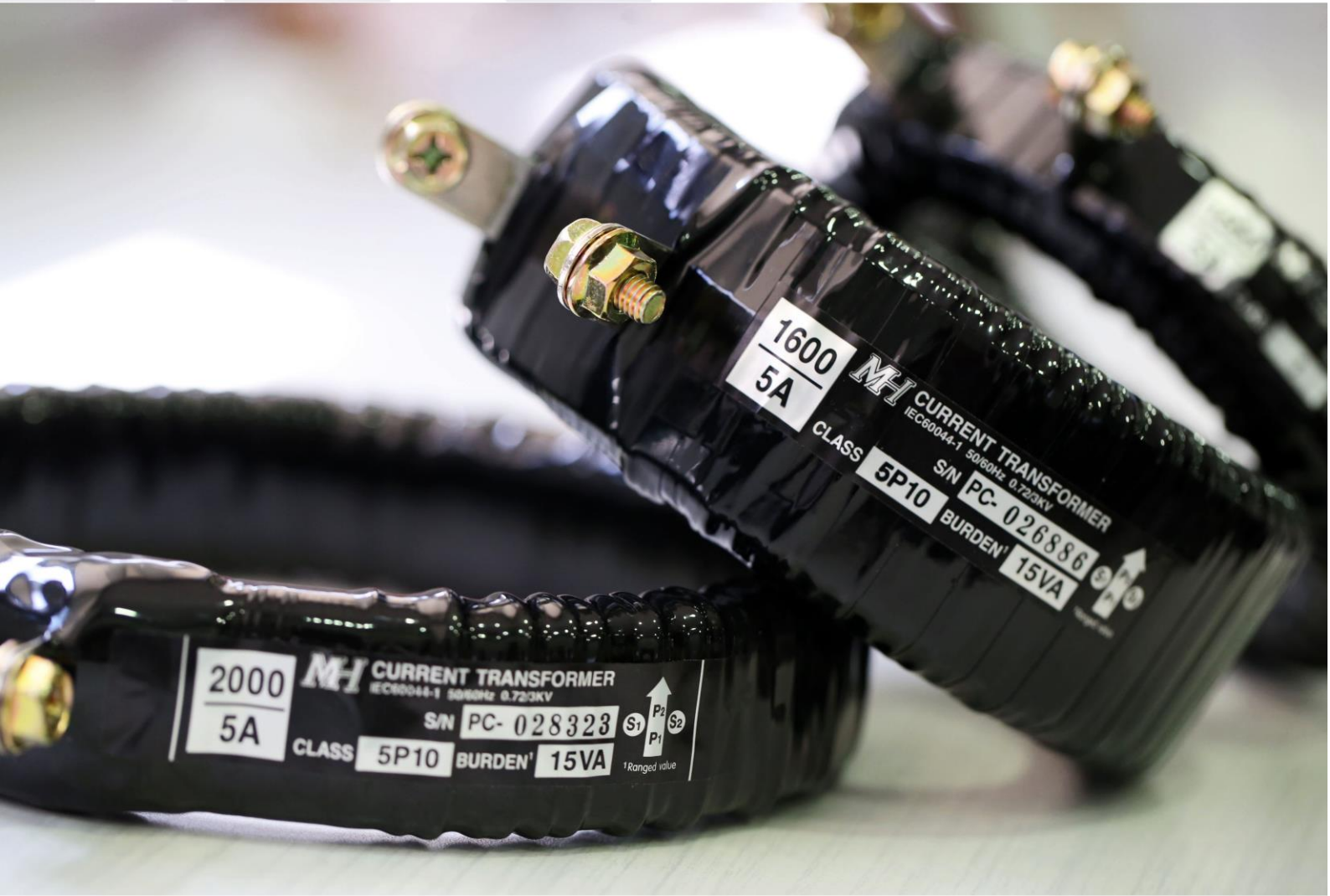


MH

MH Current Transformers



Current Transformer



MH Current Transformer
Tape wound construction for Low Voltage AC network measurement

Device features

METERING CT

- Monitoring of kWh/ W/ A
- Class 0.5/ 1/ 3
- Cast Resin or Insulated Tape Wound

PROTECTION CT

- For detection of circuit fault condition with high peak current handling
- Class 5P/ 10P/ PX
- Insulated Tape Wound construction

Standard Compliance

- IEC 60044-1 for manufacturing and testing method used
- IP 20 Degree of Protection for indoor application

Customized CT

- MH CT are available in custom built specification such as PX type requirement
- We have over 20 years' experience in making CT with precise tolerance & special performance

Product description

MH Current Transformer (MH CT) is used in energy metering and feeder protection application. Designed for use in low voltage 50/60Hz network, the CT is installed in electrical switch board, control panel and motor control centre. High grade annealed grain-oriented silicon steel is used in the CT core to provide improved accuracy and linearity of measurement.

The CT can be directly installed onto bare copper busbar up to 720VAC rating. Available in a wide variety of dimensions and current ratio rating. Connection to the Secondary winding is made via 2 bolt terminal. Customized model can be manufactured to customer specification.

MH CT is manufactured to comply with IEC 60044-1 standard. This ensures that each CT will provide measurement at its rated accuracy when operating at fluctuating temperature, humidity, surge impulses and radio interference. Additional requirement for protective CT is applied to ensure its reliable operation in the event of heavy fault condition.

Product selection guide

Metering CT

| | |
|-----------|---|
| Class 0.5 | For kWh revenue meter application where accurate recording of energy consumption is required. 0.5% Current (Ratio) Error at 100% Rated Current. |
| Class 1 | For general metering of feeder 1% Current (Ratio) Error at 100% Rated Current. |
| Class 3 | For industrial load status indication purpose. 3% Current (Ratio) Error at 100% Rated Current. |

Protection CT

| | |
|-----|--|
| 5P | For stringent time graded coordination protection scheme. 5% composite error at rated Accuracy Limit Factor. |
| 10P | For general time coordination and instantaneous over current scheme. 10% composite error at rated Accuracy Limit Factor. |
| PX | Special application where protection scheme requires precise parameter defined for Knee Point Voltage, Turn Ratio, Maximum Excitation Current at Knee Point, CT Secondary Resistance. (Customized built item). |

Examples of CT Specification

| | |
|---------------|--|
| Metering CT | e.g. 400/5, CL1 10VA 400A Primary Full Load, 5A Secondary Output, 10VA Burden, Class 1 |
| Protection CT | e.g. 1600/5, 5P10 15VA 1600A Primary Full Load, 5A Secondary Output, 15VA Burden, 5P10 Stringent Time Coordination with 10x Accuracy Limit Factor. |

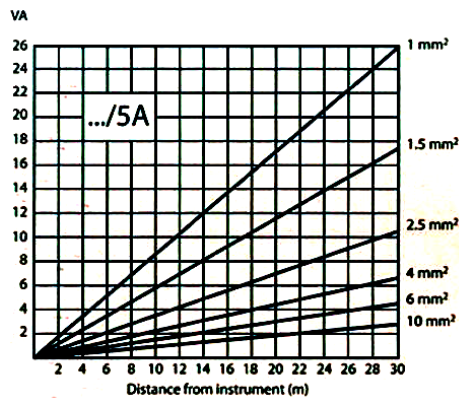
Current Transformer

Standard Model Range

Technical data

| | |
|--------------------------|-----------|
| Rated insulation voltage | 720VAC |
| Rated impulse voltage | 3kV/ 1min |

Instrument Wire Distance



| Pri/Sec Current Rating | VA | | CL5P10 | Class 0.5 | Class 1 | Class 3 |
|------------------------|----|----|--------|-----------|---------|---------|
| | 5 | 15 | | | | |
| 6000/5 | ● | ● | ● | ● | ● | ● |
| 5000/5 | ● | ● | ● | ● | ● | ● |
| 4000/5 | ● | ● | ● | ● | ● | ● |
| 3200/5 | ● | ● | ● | ● | ● | ● |
| 3000/5 | ● | ● | ● | ● | ● | ● |
| 2500/5 | ● | ● | ● | ● | ● | ● |
| 2000/5 | ● | ● | ● | ● | ● | ● |
| 1600/5 | ● | ● | ● | ● | ● | ● |
| 1500/5 | ● | ● | ● | ● | ● | ● |
| 1200/5 | ● | ● | ● | ● | ● | ● |
| 1000/5 | ● | ● | ● | ● | ● | ● |
| 800/5 | ● | ● | ● | ● | ● | ● |
| 600/5 | ● | ● | ● | ● | ● | ● |
| 500/5 | ● | ● | ● | ● | ● | ● |
| 400/5 | ● | ● | ● | ● | ● | ● |
| 300/5 | ● | ● | ● | ● | ● | ● |
| 200/5 | ● | ● | ● | ● | ● | ● |
| 150/5 | ● | ● | ● | ● | ● | ● |
| 120/5 | ● | - | - | - | ● | - |
| 100/5 | ● | ● | ● | ● | ● | ○ |
| 80/5 | ● | - | - | - | ● | ○ |
| 60/5 | ● | ● | - | ● | ● | ○ |
| 50/5 | ● | - | - | - | ● | ● |
| 40/5 | ● | - | - | - | ● | ● |

Legend: ● standard item
○ upon request

Note: Other rating and sizes are available on customized built order.

About MH Current Transformer

MH Current Transformer (MH CT) is designed and manufactured by Challenge Industrial Co. (Malaysia) Sdn. Bhd. which was founded in the year 1993 by a joint venture between Mun Hean and Challenge Industrial Co. Ltd. The MH Current Transformer is solely made under MH Instruments, a wing under Mun Hean Group. The founding of MH Current Transformer is in line with Mun Hean's flagship products, MH Protection Relays and Meters. In 1994, the product range for Protection Current Transformer is extended to Class X Type and subsequently in year 1996, Class 0.5 Metering Current Transformer was included into the production range. The complete chain of value creation including product design & development, production, and testing is based in Selangor, Malaysia. The major expansion of production area at the mid of year 2014 shows that the product demand of MH Current Transformer is increasing. Today, MH Current Transformer has been sold to Singapore, Malaysia, Hong Kong, Myanmar, Philippines, Indonesia and Vietnam, and it is the market leader in Malaysia and Singapore.



MH Current Transformers

Authorized Distributor: