

## Product Guide



# control power TRANSFORMERS



**SIEMENS**

## Control Power Transformers

Industrial and construction markets demand rugged, reliable design for manufacturing plants and commercial applications. Siemens offers a wide range of control power transformers that satisfy these demands for both NAFTA and Global markets.



### Product Class MT designed for domestic use.

#### Features:

- Epoxy encapsulated up to 750VA. The design is completely sealed to protect against moisture, dust, and dirt from getting into the transformer.
- Transformers isolate the control circuit from the power and lighting circuits, thus reducing noise interference.
- Epoxy sealing provides cooler operation.
- Laminations are built from silicon steel to minimize core losses and increase optimum performance and efficiency. High quality copper wire is used to assure reliable and efficient operation.
- Secondary fuse clips are available for sizes 50 VA and larger. The fuse clips are mounted on the terminals to save panel space and provide easy access for wiring.
- Multi-tap transformers are supplied with jumper links to reconfigure connection as needed.

**Note:** For Class MT and MTG dimensions, weights and wiring diagrams, refer to the CPPC-06000 Industrial Control catalog or the PDPC-01000 SPEEDFAX catalog.

#### Standards:

- Designed per NEMA ICS2 and is UL-506 listed and CSA certified. These transformers will handle the inrush currents generated by energizing electro-magnetic devices while maintaining a stable secondary voltage.
- Terminals are conveniently located at the top of the transformer with integral strong barriers molded in between to provide isolation with the proper creepage distance.
- Class MT transformers are available as standard from 45 VA up to and including 5000 VA in single or multi-windings for primary and/or secondary. Primary voltage is rated up to 600 volts 50/60 Hz and secondary voltage ranges from 120 to 24 volts.
- Clearly marked and identified termination points for wiring on an easily visible label.



Product Class MTG designed for global use. In addition to the standard features of the MT transformers, the MTG features include:



- The quality design of Class MTG meets all requirements for domestic and international applications.
- These transformers have full compliance with EN61558-2-2 for non-short circuit proof control transformers. Winding isolation for the MTG is twice that of the MT, the electrical clearances are greater and the output capacity is 10% higher than that required by UL-506. That is what it takes to comply with EN61558-2-2. The CE mark indicates compliance with the required directives.
- The IEC-529 finger-safe requirements are met by adding optional covers on the terminals and fuse blocks. This provides protection against touch proof of terminals. EN61558-2-2 specifies the safety of control power transformers under directive 73/23/EEC.
- In addition to meeting the IEC and EN standards, these transformers are UL listed and CSA certified.

Product Class KT designed for convenient modification of enclosed products. Features:



- Kits offer 45 VA to 500 VA with many primary and secondary voltage selections.
- Primary and secondary fusing is standard on all kits from 50 VA and higher.
- Wires with fork connectors at one end are included in the kit to make it convenient for easy wiring. Wire ties are supplied for neat wiring practices. Mounting screws are also included.

### Transformer Accessories

Single pole fuse block for secondary fuse



KCCF1G

Single pole fuse block cover kit (for primary or secondary)



KCCFBCK

Touch-safe fuse block for single or double poles



3NW7011 3NW7021

Double fuse block for 2-pole primary fuses



KCCFP2RG

Snap-on terminal touch-safe cover kit



KTTSC4P

Refer to the additional brochures listed below for information on other NEMA and general purpose control products. Order on-line via the Siemens Literature Fulfillment System or contact your local Siemens sales office.

- Open NEMA Starters Publication No. NEBR-OPNST-0605
- Enclosed NEMA Starters Publication No. NEBR-ENCST-0605
- Manual Motor Controls Publication No. NEBR-MANMC-0605
- Pump Controls Publication No. NEBR-PUMPC-0605
- Lighting & Heating Contactors Publication No. NEBR-LAHCO-0605

Note – The last four digits of the publication number indicate month and year of last revision and may change upon each revision.

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