

LOW INRUSH CURRENT ISOLATION TRANSFORMER



Inrush current, input surge current, or switch-on surge is the maximum instantaneous input current drawn when transformers are turned on. At this point of time, the transformer can draw approximately 10 to 15 times of its normal full-load current for a few cycles of the input waveform.

The selection of over-current-protection devices such as fuses and circuit breakers is made more complicated when high inrush currents must be tolerated. The over-current protection must react quickly to overload or short-circuit faults but must not interrupt the circuit when the (usually harmless) inrush current flows.

Low Inrush Current Isolation transformer has the capability of limiting the inrush current inherently and stop nuisance tripping the breaker without any single external components. QPS Low inrush transformer technology is proven by their track records, dependable, robust and cost effective. Further, Low inrush transformer may improve the life expectancy of the powering device.

TECHNICAL SPECIFICATIONS

CAPACITY

- Up to 2500kVA

RATED VOLTAGE

- Up to 1000V

RATED FREQUENCY

- 50Hertz
- 60Hertz

AMBIENT TEMPERATURE

- 40°C
- Others upon request

INSULATION CLASSIFICATION

- Class F & H
- Others upon request

INRUSH CURRENT LIMITING

- $3 \times I_N$

REFERENCE STANDARD

- IEC 60076
- IEC 61558

TRANSFORMER CORE MATERIAL

- High grade electrical steel

WINDING CONDUCTORS

- Copper or Aluminium wire
- Copper or Aluminium foils

OPTIONAL ACCESSORIES

- Enclosures up to IP54
- MCCB with or without shunt trip
- Ammeter and Voltmeter
- Temperature controller
- Fan fail detector alarm
- BMS open relay contacts