PRODUCT DATASHEET

ST50 Series

Single-phase moulded case current transformers



KEY FEATURES

- 300-1000 A primary current
- 5 A or 1 A secondary output
- 74 mm width
- 41 mm cable aperture
- Sealable terminal cover
- Supplied with mounting feet
- Compact design
- Primary current-flow indication

PRODUCT OVERVIEW

ST50 solid-core current transformers monitor current flow in commercial, industrial and utility applications. They connect to standard metering or relay products requiring a 5 A or 1 A output. Mounting feet and moulded current-flow markings simplify installation and help prevent connection errors.

PRODUCT SELECTION

Product code	Hole (mm)	Primary (A)	Class 0.5	Class 1.0
ST50-300	50	300	5 VA	5 VA
ST50-400	50	400	5 VA	5 VA
ST50-500	50	500	5 VA	5 VA
ST50-600	50	600	5 VA	5 VA
ST50-750	50	750	10 VA	10 VA
ST50-800	50	800	10 VA	10 VA
ST50-1000	50	1000	15 VA	15 VA

All models available with 5 A or 1 A secondary output.

CE | RoHS

Technical specifications

ST50 Series / Electrical, environmental and mechanical data

ELECTRICAL RATINGS & INSULATION

Parameter	Specification
Rated primary current (Ipr)	300-1000 A
Frequency range	47-63 Hz
Rated continuous overcurrent	1.2 × rated current
Rated short-time thermal current (Ith)	<60 I
Rated dynamic current (Idyn)	2.5 Ith
Instrument security factor (FS)	5
Rated secondary output	5 A or 1 A
Accuracy class	Class 0.5 and 1 to IEC/EN 61869-2
Insulation type	Dry transformer, air insulation
Highest voltage (Um)	0.72 kV r.m.s.
Rated insulation level	3 kV r.m.s., 50 Hz / 1 min

ENVIRONMENTAL CONDITIONS

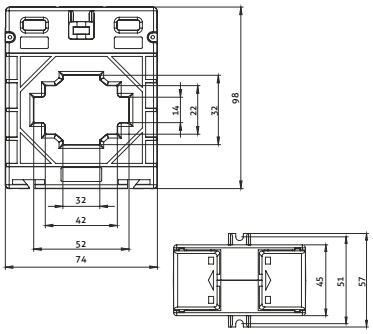
Reference temperature	23°C ±1°C
Nominal temperature	-25°C to +50°C
Daily mean temperature	≤30°C
Storage temperature	-40°C to +85°C
Relative humidity	≤85%, non-condensing

HOUSING & CONNECTIONS

Housing material	Non-flammable, self-extinguishing ABS / polycarbonate
Protection (IEC/EN 60529)	IP40 housing; IP20 terminals
Mounting	Foot mounting
Primary winding	Passing cable
Secondary winding	Screw clamp connection, 6 mm

DIMENSIONS

All dimensions in mm



Source revision: V-21.03