ELEQ mastering electricity worldwide

SB08 – Ring Core Current Transformer

The SB08 low-voltage current transformers can be installed around the bushing of medium-voltage or high-voltage switches, both in air and in an SF6 environment. The SB08 can also be used in power and distribution transformers; In air or in transformer oil (up to a maximum of 120°C). The SB08 is supplied as a separate product. ELEQ also offers the option of supplying the SB08 in a stacked construction, the ELEQ Sub-assembly, where several ring cores are produced, tested and delivered as an assembled set. The SB08 is standard equipped with colour-coded wiring and is fitted with a strain relief for easy mounting.

Technical Specifications

Application conditions	
Standard:	IEC, VDE, ANSI, DIN
Rated short-time thermal current:	On request
Continuous thermal current:	On request
Rated insulation level:	0,72/3/-kV (1,2/6/-kV on request)
Rated frequency:	50/60Hz

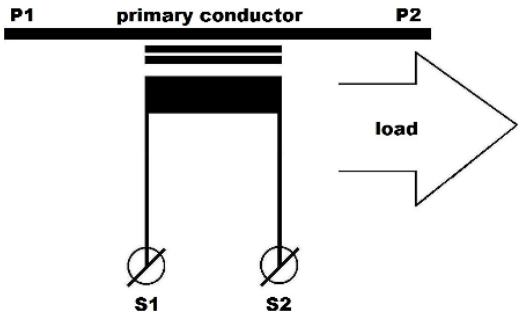
Security Factor
To protect valuable equipment, the SB08 can be supplied with a specific Instrument Security Factor, for example Fs 5 or Fs 10.

Protection class
Depending on the application, the SB08 can be produced with different protection classes. In addition to the P and PX classes, transient response is also possible, such as TPX, TPY or TPZ. If a low remanent flux is needed, the SB08 is also suitable to be manufactured with 'air gaps' for PR, PXR, TPY and TPZ classes, where the remanent factor should be less than 10%.

External fields
If there is a possible influence of a stray flux, our cores can be outfitted – on request - with a flux compensation winding to minimize the influence of external factors. The SB08 can therefore also be used near the active part of a power transformer. In that case the SB08 will be additionally insulated with crepe paper. In particular circumstances, it is possible to install the ring core in a metal free (timber) sub-assembly.

Test winding
On request the SB08 can also be equipped with a 10 A test winding with a separate number of additional windings. This allows the already installed ring core to be tested on various aspects without the need for a full primary current for which the ring core was produced. As a result, two additional terminals are available. An additional test lead can be supplied of, for example, 35 mm^2 as a feed-through test winding, or 2 x 35 mm^2 for max. 300 A.

Wiring Diagram



Dimensions