

## ESBM 106-54-82 – Bushing Current Transformer

The ESBM 106-54-82 is a low voltage current transformer for mounting around the bushing/conus connector in switchgear applications. Due to its optimized design it fits around almost all bushing connectors. With its sealable connectors it can be used for revenue metering (billing). The ELEQ quality assurance system is recognized, according conformity assessment procedure, by the National Metrology Institute of German (PTB) and Federal Office for Metrology and Surveying Austria (BeV), so that the ESBM current transformer can be used for billing purposes as soon as it is placed on those markets. These current transformers are supplied with a declaration of conformity. This enables ELEQ to declare and confirm that its products meet the basic requirements of the law on measurements and calibration.

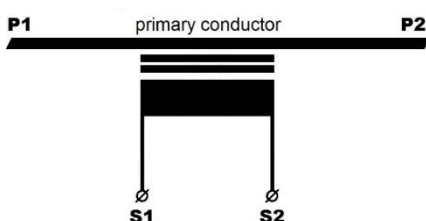


### Ordering specifications

Ratio	Class	Burden	Article number P1 at connection side	Article number P2 at connection side
200/1A	0,5S	2,5VA	4SB502D	4SB802D
300/1A	0,2S	2,5VA	4SB513D	4SB813D
400/1A	0,2S	2,5VA	4SB514D	4SB814D
500/1A	0,2S	5VA	4SB515D	4SB815D
600/1A	0,2S	5VA	4SB516D	4SB816D
200/5A	0,5S	2,5VA	4SB522D	4SB822D
300/5A	0,2S	2,5VA	4SB533D	4SB833D
400/5A	0,2S	2,5VA	4SB534D	4SB834D
500/5A	0,2S	5VA	4SB535D	4SB835D
600/5A	0,2S	5VA	4SB536D	4SB836D

On request other ratio's and specifications for measuring and protection classes are possible.

### Wiring diagram



### Technical specifications

<b>Environmental conditions</b>	
This product is designed to be safe under the following conditions:	
Location:	Indoor use
Ambient air temperature:	-35°C .. +50°C; other temperatures on request
Storage and transport temperature:	-40°C .. +60°C
Relative humidity:	5% .. 95%, non condensing
Altitude:	Max. 2000m above NN; at >1000m data required
Protection degree (secondary terminal):	IP20
<b>Application conditions</b>	
Standard:	IEC 61869-2 / IEEE C57.13; etc.
IEC 61768-2 specification:	
Rated short-time thermal current (I <sub>th</sub> ):	60 x I <sub>n</sub> /1s, max. 50kA/1s
Rated dynamic current (I <sub>dyn</sub> ):	2,5 x I <sub>th</sub> , max. 125kA/1s
Continuous thermal current (I <sub>cth</sub> ):	Up to 120%
Rated insulation level:	Max. 0,72/3/-kv
Rated frequency:	50/60Hz
Class of insulation:	E (120°C)
Primary window dimensions:	Ø 82 mm
Rated primary current:	Up to 600A
Rated secondary current:	1A or 5A; other options available on request
Rated output:	As required. For example 2,5VA, 5VA
Accuracy class:	As required. For example 0,2S, 0,5S
Secondary terminal:	Sealable, 6mm <sup>2</sup> solid / 4mm <sup>2</sup> , stranded Screw connection

### Dimensions

