

## CURRENT SENSOR

### ExxxR

Indoor Current Sensor for Bushing/ T-Connector Installation  
Toroidal Core Standard Shape EVA  
IEC 61869-1, IEC 61869-10



Type:	Current sensor
<b>Primary type:</b>	300A (standard)
Shape:	Toroidal Core Standard Shape EVA [ID: min. 83mm]
Burden:	>10kΩ [maybe >30kΩ on low primaries]
<b>Accuracy:</b>	0.5 standard (0.2s max.) and/or protection class
<b>Frequency:</b>	50/60Hz (standard)
<b>Primary value:</b>	300A (40A / 700A / 800A – on stock)
<b>Secondary value:</b>	225mV standard (or 22.5mV / 150mV / 333mV IEC standards) // 1A
<b>Extension:</b>	120% standard (400% max.)
Isolation-level:	- / 0.72 / 3 kV
<b>Cable length:</b>	2m standard (available lengths: 3.7m / 5m / 8m / 10m)
<b>Cable type:</b>	2 pole, 0.34, twisted pair, grey, shielded + braid, assembled 80°C
<b>Connection type:</b>	Open-end (standard) / RJ45 (variable pinning) / BNC
Measuring burden:	>10kΩ [maybe >30kΩ on low primaries]
Storage temperature:	-40°C – 75°C
Service temperature:	-25°C – +60°C (constant) / -40°C – 75°C (short-term)
Temperature error:	-0.1%@60°C/ +0,15%@-25°C/ -0,2%@75°C/ +0.2%@-40°C max.
TC (equivalent):	Maximal ±30PPM / Typical ±20PPM / Minimal ±<20PPM PTC
Power rating/ consumption:	<1VA

Additional Information:

**Data Fields in Green are customer-defined**, and therefore vary with specific product  
Every specific product has a specific code  
All this specific data fields are also shown in the official offers and orders  
All data is locked to a specific no/ code, so if a value changes this code will change

Describes the type of measuring product  
Primary current value for fast identification/ primary product code value  
Specified shape / dimensions  
Rated burden of product (standard >10kΩ) / 1VA standard for classic CTs  
Accuracy class(es) according to specified standard, depends on ratio  
Applicable base net frequencies, depends on region  
Primary value @ line = primary (ratio) / standard ratios see tabloid next page  
Secondary value @ IED = secondary (ratio) / standard ratios see tabloid next page  
Upper measuring limit within accuracy class / limited by  $I_{cont}$  of given ratio  
Isolation level according to specified standard – for use on screened MV cables  
Length of specific cable  
Generic description of implemented cable  
Interconnection between the sensor (transformer) and IED = input connection  
Measuring burden @ testing bench, equals IED(s) input impedance/ used burden (CTs)  
Maximal storage temperature range, avoid extremes for longer than 72h  
Permitted constant and short-term ambience temperatures in operation  
Maximal deviations in percent at temperature extremes  
Corresponding temperature coefficient in parts per million (curve = quasi-linear)  
Power consumption @ nominal primary value / equals burden for classic CTs