

# Ultrastab 867-400I

Last update: 30.03.2009

Part no.:8100088675

## Current transducer

Parameter	Symbol	Condition	Value	Unit
<b>Primary current</b>	<b>I<sub>p</sub></b>			
Nominal primary current	I <sub>pn</sub>		± 400	A
Polarity			Bipolar	
<b>Secondary current</b>	<b>I<sub>s</sub></b>			
Nominal secondary current	I <sub>sn</sub>		± 200	mA
<b>External burden resistor</b>	<b>R<sub>b</sub></b>			
Max.	R <sub>b, max</sub>		2.5	Ω
Min.	R <sub>b, min</sub>		0	Ω
<b>Current transfer ratio</b>	<b>N</b>		2000	
<b>Overload capacity</b>				
Max. nondestructive overload	I <sub>p, max</sub>	@ 0.1s	500	%I <sub>pn</sub>
Min. overload trip value	I <sub>p, trip</sub>		110	%I <sub>pn</sub>
<b>DC accuracy</b>				
Offset				
Initial	I <sub>so</sub>		< 40	ppm
Drift vs. Temp.	I <sub>so, temp</sub>		< 1	ppm / K
Drift vs. Time	I <sub>so, time</sub>		< 1	ppm / month
Drift vs. supply voltage	I <sub>so, supply</sub>		< 3	ppm / %
Linearity				
Deviation	X <sub>d</sub>		< 3	ppm
<b>Output noise</b>	<b>I<sub>s, noise</sub></b>			
		0 - 10Hz	< 0.05	ppm (RMS)
		0 - 100Hz	< 0.5	ppm (RMS)
		0 - 1kHz	< 1	ppm (RMS)
		0 - 10kHz	< 4	ppm (RMS)
		0 - 50kHz	< 8	ppm (RMS)

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<b>Dynamic response</b>				
Slew rate	dI/dt	10 - 90%	> 80	A / $\mu$ S
<b>Bandwidth</b>				
$\pm 1$ dB	<b>f</b>	<0.5%I <sub>pn</sub>	150	kHz
$\pm 3$ dB		< 0.5% I <sub>pn</sub>	800	kHz
<b>Busbar noise</b>				
Measured on primary cable, one turn	<b>U<sub>b</sub></b>	DC - 50kHz	< 5	$\mu$ V RMS
<b>Busbar free zone</b>				
Length	l		150	mm
Radius	r		75	mm
<b>Test voltages</b>				
Busbar to GND	V <sub>t, b</sub>		5000	VAC RMS
<b>Power supply</b>				
Supply voltage	V <sub>s</sub>	$\pm 5\%$	$\pm 15$	V
Maximum quiescent current	I <sub>q</sub>		$\pm 70$	mA
Maximum current consumption	I <sub>max</sub>		$\pm 270$	mA
<b>Operating environment</b>				
Temperature	T <sub>a</sub>		10 - 50	$^{\circ}$ C
Humidity	RH <sub>a</sub>	Noncondensing	20 - 80	%RH
<b>Storage environment</b>				
Temperature	T <sub>s</sub>		-20 - 85	$^{\circ}$ C
Humidity	RH <sub>s</sub>	Noncondensing	20 - 80	%RH

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<b>Mechanical dimension</b>				
Width	W		93	mm
Height	H		78	mm
Depth	D		47	mm
Weight (approx.)	m		0.3	kg
Inner hole diameter	O		26	mm

#### Notes:

- 1: All ppm figures refer to nominal current
- 2: Specifications is subject to change without notice