

Ultrastab 867-60I

PRELIMINARY DRAFT: 30.03.2009

Part no.:8100089453

Current transducer

Parameter	Symbol	Condition	Value	Unit
Primary current	I_p			
Nominal primary current	I_{pn}		± 60	A
Polarity			Bipolar	
Secondary current	I_s			
Nominal secondary current	I_{sn}		± 100	mA
External burden resistor	R_b			
Max.	$R_{b, max}$		20	Ω
Min.	$R_{b, min}$		0	Ω
Current transfer ratio	N		600	
Overload capacity				
Max. nondestructive overload	$I_{p, max}$	@ 0.1s	500	% I_{pn}
Min. overload trip value	$I_{p, trip}$		110	% I_{pn}
DC accuracy				
Offset				
Initial	I_{so}		< 250	ppm
Drift vs. Temp.	$I_{so, temp}$		< 2.5	ppm / K
Drift vs. Time	$I_{so, time}$		< 2.5	ppm / month
Drift vs. supply voltage	$I_{so, supply}$		< 2.5	ppm / %
Linearity				
Deviation	X_d		< 20	ppm
Output noise	$I_{s, noise}$			
		0 - 10Hz	< 1	ppm (RMS)
		0 - 100Hz	< 1	ppm (RMS)
		0 - 1kHz	< 4	ppm (RMS)
		0 - 10kHz	< 6	ppm (RMS)
		0 - 50kHz	< 15	ppm (RMS)

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Dynamic response				
Slew rate	dI/dt	10 - 90%	> 25	A / μ S
Bandwidth				
± 1 dB	f		0 - 600	kHz
± 3 dB			0 - 800	kHz
Busbar noise				
Measured on primary cable, one turn	U_b	DC - 50kHz	< 30	μ V RMS
Busbar free zone				
Length	l		40	mm
Radius	r		40	mm
Test voltages				
Busbar to GND	V _{t, b}		2000	VAC RMS
Power supply				
Supply voltage	V _s	$\pm 5\%$	± 15	V
Maximum current consumption	I _{max}		± 150	mA
Operating environment				
Temperature	T _a		10 - 50	$^{\circ}$ C
Humidity	RH _a	Noncondensing	20 - 80	%RH
Storage environment				
Temperature	T _s		-20 - 85	$^{\circ}$ C
Humidity	RH _s	Noncondensing	20 - 80	%RH

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Mechanical dimension				
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