

Ultrastab 867-200I

Last update: 15.05.2008

Part no.:8100089118

Current transducer

Parameter	Symbol	Condition	Value	Unit
Primary current	I_p			
Nominal primary current	I _{pn}		± 200	A
Polarity			Bipolar	
Secondary current	I_s			
Nominal secondary current	I _{sn}		± 200	mA
External burden resistor	R_b			
Max.	R _{b, max}		30	Ω
Min.	R _{b, min}		0	Ω
Current transfer ratio	N		1000	
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}		< 80	ppm
Drift vs. Temp.	I _{so, temp}		< 2	ppm / K
Drift vs. Time	I _{so, time}		< 1	ppm / month
Drift vs. supply voltage	I _{so, supply}		< 6	ppm / %
Linearity				
Deviation	X _d		< 3	ppm
Output noise	I_{s, noise}			
		0 - 10Hz	< 0.1	ppm (RMS)
		0 - 100Hz	< 1	ppm (RMS)
		0 - 1kHz	< 2	ppm (RMS)
		0 - 10kHz	< 8	ppm (RMS)
		0 - 50kHz	< 15	ppm (RMS)

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Dynamic response				
Slew rate	dI/dt	10 - 90%	> 100	A / μ S
Delay time	t_d		< 1	μ S
Bandwidth				
± 1 dB	f	<0.5%I _{pn}	10	kHz
± 3 dB		< 0.5% I _{pn}	100	kHz
Busbar noise				
Measured on primary cable, one turn	U_b	DC - 50kHz	< 5	μ V RMS
Busbar free zone				
Length	l		140	mm
Radius	r		70	mm
Test voltages				
Busbar to GND	$V_{t, b}$		5000	VAC RMS
Power supply				
Supply voltage	V_s	$\pm 5\%$	± 15	V
Maximum quiescent current	I_q		± 70	mA
Maximum current consumption	I_{max}		± 270	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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Parameter	Symbol	Condition	Value	Unit
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