Ultrastab 867-200I

Last update: 15.03.2007

Current transducer

Parameter	Symbol	Condition	Value	Unit
Primary current	I_p			
Nominal primary current			± 200	A
Polarity			Bipolar	
Secondary current	I_s			
Nominal secondary current			± 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	%Ipn
Min. overload trip value	$I_{p,\ trip}$		110	%Ipn
DC accuracy				
Offset				
Initial	I_{so}		< 60	ppm
Drift vs. Temp.	$I_{so,\ temp}$		< 1	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	< 0.05	ppm (RMS)
		0 - 100Hz	< 1	ppm (RMS)
		0 - 1kHz	< 2	ppm (RMS)
		0 - 10kHz	< 6	ppm (RMS)
		0 - 50kHz	< 10	ppm (RMS)

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Parameter	Symbol	Condition	Value	Unit
Dynamic response				
Slew rate	dI/dt	10 - 90%	> 100	A / µS
Delay time	t_d		< 1	µS
Bandwidth	**f**			
±1dB		<0.5%Ipn	10	kHz
±3dB		< 0.5% Ipn	100	kHz
Busbar noise	**U_b**			
Measured on primary cable, one turn		DC - 50kHz	< 5	µV RMS
Busbar free zone				
Lenght	l		140	mm
Radius	r		70	mm
Test voltages				
Busbar to GND	$V_{t, b}$		5000	VAC RMS
Power supply				
Supply voltage	V_s	± 5%	± 15	V
Maximum quiescent current	I_q		± 70	mA
Maximum current consumption	I_{max}		± 270	mA
Operating environment				
Temperature	T_a		10 - 50	ºC
Humidity	RH_a	Noncondensing	20 - 80	%RH
Storage environment				
Temperature	T_s		−20 - 85	ºC
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 are subject to change without notice