

ULTRASTAB 867-700-U CURRENT TRANSDUCER

SPECIFICATIONS	
Primary current	0 to $\pm 700\text{A}$
Polarity	Bipolar
Output voltage	0 to $\pm 10\text{V}$
Load current (max)	5 mA
Compensation current	0 to $\pm 400\text{mA}$
Overload capacity:	
Normal operation	100%
Basic function maintained	110%
Fault	500% (0.1s)
Current transfer ratio (internal)	1750:1
Linearity	$< \pm 30 \text{ ppm}$
<u>DC-accuracy :</u>	
Offset:	
Initial	$< 20 \text{ ppm}$
vs. temperature	$< 4 \text{ ppm}/^{\circ}\text{C}$
vs. time	$< 1 \text{ ppm/mth}$
vs. supply voltage	$< 3 \text{ ppm}/\% \text{ (Worst Case)}$
Gain:	
Initial	$< 50 \text{ ppm}$
vs. temperature	$< 3 \text{ ppm}/^{\circ}\text{C}$
Output noise (RMS):	
DC - 10 Hz	$< 1 \text{ ppm}$
DC - 100 Hz	$< 2 \text{ ppm}$
DC - 1 kHz	$< 2 \text{ ppm}$
DC - 10 kHz	$< 5 \text{ ppm}$
DC - 50 kHz	$< 10 \text{ ppm}$
Feedback noise (RMS), DC-50kHz (measured on the primary current cable - one turn)	$< 30\mu\text{V}$
Busbar free zone (from center)	$r \geq 70 \text{ mm}$
Slew rate (10-90%)	$> 100\text{A} / \mu\text{S}$
Delay time	$< 1 \mu\text{S}$
Bandwidth (2.5R Burden Resistor, 3dB, small signal 5%)	DC to $> 100\text{kHz}$
Test voltage (pin 4 - ground to $\varnothing 30$ Busbar)	5kV AC

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SPECIFICATIONS	
Operating temperature	10-50°C
Input power requirement	±15V, <±5% ±80mA + output current
Mechanical dimensions (W x H x D)	104 x 106 x 67 mm
Socket length	128 mm
	ø 30 mm hole
Weight	approx. 0.8 kg

All ppm figures refer to max. output.

Specifications are subject to change without notice.

We recommend that a shielded output cable and plug are used to ensure the maximum immunity against electrostatic fields.

9-pole D-SUB (Male)

Pin configuration:

Pin 1	Voltage Output return
Pin 2	N.C.
Pin 3	Normal operation status
Pin 4	GND
Pin 5	-15V supply voltage
Pin 6	Voltage Output
Pin 7	N.C.
Pin 8	Normal operation status
Pin 9	+15V supply voltage
House	Electrostatic shield