

# DATA SHEET

## Surge tester **ST 3810L**



Surge tester ST 3810L  
Plug-in 19" / 3 HU

<b>Description</b>	Winding goods like stators, coils or transformers can be examined precisely and comfortably with the surge tester ST 3810L. Thus, winding shorts and insulation faults inside a winding can be recognised even before the fault has an effect on the DUT. This avoids breakdowns of electric motors and any related call-backs.	
<b>Application</b>	The surge tester ST 3810L was developed for OEM applications in systems. A complete PC software (DAT) and a software interface (DLL) is available.	
<b>Surge test</b>	Voltage	100 – 6,000 V
	Surge capacity	100 nF option: 200 nF
<b>High voltage test DC</b>	Voltage range	100 up to 6,000 V / 10 mA
<b>Insulation measurement DC</b>	Measuring range	100 up to 6,000 V / 100 GΩ / kV
<b>Internal matrix</b>	L, N + PE, Guard	
<b>Evaluation process</b>	Defective area	
	Differential area nF	
	Tolerance band	
<b>Computer technology</b>	Sampling rate	500 MHz
	Resolution	8 Bit / 2 ns
	Memory depth	256 MByte
	Number of master curves	unlimited
	Recording duration	1 μs up to 160 ms
<b>General data</b>	Error message	visual and audible
	PC software	DAT
	Software interface	DLL
	Dimensions (HxWxD) and weight	133 x 483 x 489 mm / approx. 17.5 kg 5.2 x 17.0 x 19.3 in. / approx. 38.6 lbs.
	Mains supply	115 V, 60 Hz / 230 V, 50 Hz
<b>Interfaces</b>	Computer interfaces	Ethernet / LAN
<b>Operation</b>	Remote control via separate PC	