LAMINATION STATOR TESTER

DAC-LST-3

DAC-LST-3 is designed to test a lamination stator core of motor. A quality is judged by comparing values of B (Magnetic Flux Density), H (Magnetizing Force) and W (Iron Loss) between a sample core and a standard core.
Introducing a PWM inverter source to magnetize the stator core, DAC-LST-3 is smaller and lighter than a conventional tester provided with a transformer source.
Moreover, output voltages are much stabilized, and there is no need to combine an external stabilizing source.
Testing Frequency is also changeable in range of 50Hz to 400Hz.
An USB interface is provided as standard, and data acquisition and transmission from a PC is possible.

Test specimen

Lamination Stator-Core of Motor

Features

- Magnetic characteristic (B-H-W) can be judged by easy operation, and management of quality of stator cores is possible.
- The frequency of the exciting power supply in range of 50 Hz to 400 Hz.
- Adjustment of the exciting power supply can be performed smoothly.
- Judgment result with a preset value and a measurement value is displayed intelligibly on a LCD panel.
- Acquisition of measuring data and transmission of preset values from a PC is possible by using USB interface.

Model DAC-LST-3
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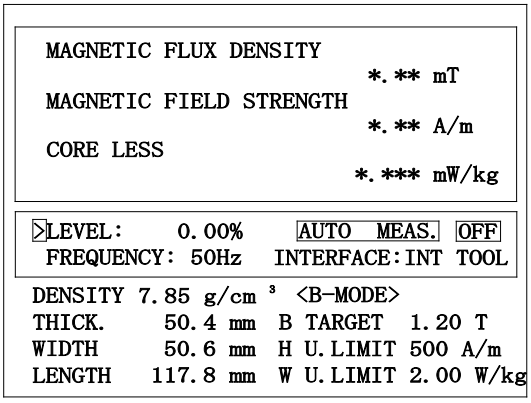
Specifications

Measuring range	B (Magnetic Flux Density)	0 - 2.0T
	H (Magnetic Field Strength)	0 - 400A/m
	W (Core Loss)	0 - 15W/kg
Measuring accuracy	<±2.5% by electric calibration	
Measuring Frequency	50Hz-400Hz	
Specimen size	Magnetic Path(LENGTH)	20.0 to 999.9mm
	Lamination(THICKNESS)	20.0 to 100.0mm
	Magnetic Width (WIDTH)	5.0 to 60.0mm
	Inner diameter of Stator	>50mm
Input Voltage	AC200V±10% 50/60Hz (when at AC100V, there are some limitations in specifications.)	
Consumption	Max 2kVA	
Size & weight	W427 x D450 x H295mm, 35kg	
Accessory	Measuring cable with probe (50mm in diameter), Checking resistor box, Power Code, Sample software	
Options	Test Bench (Air cylinder probe, Stator Palletx3)	

Judgment Mode & LCD Display



MODE Selection

B-MODE: Measurement under a constant magnetic flux density condition.

H-MODE: Measurement under a constant magnetic force condition.

Judgment measurement can be performed by comparing a reference value input in the tester.
When using B-MODE, input an optional value of Magnetic flux density (B), and also set upper limit values of both Magnetic field strength (H) and Core loss (W). When both values are within the limit, “PASS” is given to display. When either one is over the limit, it is judged as “FAIL”.

Size of Stator

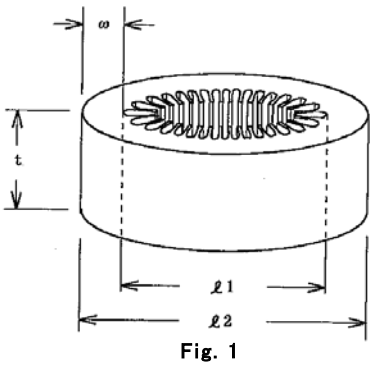


Fig. 1

When measure a stator like Fig 1, Magnetic Path length, Lamination Height and Magnetic width must be set as follows.

L = (ℓ1 + ℓ2) * π /2	:Setting of LENGTH
T = t	:Setting of THICHNESS
W =ω	:Setting of WIDTH (at the narrowest part)

(ℓ1:inside diameter of stator、ℓ2: outside diameter of stator)

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