



Computerized Function Tester for Light Duty Starters

SMFT-1

Features:

- The SMFT-1 is a unique tester designed to automatically check starter functions including: solenoid pull in, pinion size, free spin RPM coast down time and starter sound & vibration.
- Test results include: motor current, solenoid current, starter pinion speed, solenoid voltage drop, vibration & sound with averaging and order analysis, free run coast down time and motor leakage current,
- Work instructions for the operator include step by step machine setup instructions with text and pictures or video, instructions can be localized for any language.
- For fast cycle time the tester uses automatic unit clamping and connections.
- A special fork is used to perform the "Block" test, in this test step the fork is placed in the starter pinion's engagement path it is used to verify that the pinion has moved to the engaged position.
- A laser sensor measures the pinion's: gear profile, tooth size, internal & external diameter.
- Statistical data is saved for retrieval with a unique serial number.
- Calibration, Verification and Self Diagnostic software are also included.
- The SMFT-1 uses the D&V X-1 Measuring Platform this platform offers password protection of administrative functions, custom test procedures via scripting capabilities and optional printed reports and labels.



Technical Data & Measured Parameters:

Starter Free Run Current up to 150 Amps peak
Free Run Speed 0 to 12000 Rpm
Solenoid Pull-In Current up to 150 Amps peak
Solenoid Hold-In Current up to 150 Amps peak
Solenoid Contact Voltage Drop 0 to 2.5 Volts

Solenoid Pull-In Voltage up to 24 (32 optional) Volts
Solenoid Hold-In Voltage up to 24 (32 optional) Volts
Shipping Weight 1158 lbs. - 525kg
Shipping Dimensions: 48 x 48 x 66 inches

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