

200KVA AC/DC MOTOR TEST SYSTEM



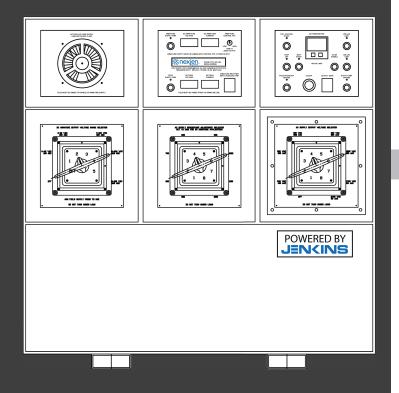
Nexjen Electric Motor Test Systems are built on the principle of safe, simple operation and dependable service. The same Jenkins test transformer design we have used for the past fifty years sits at the core of a power supply engineered to perform continuously at full ratings for 8 hours. With heavy duty components and very few moving parts, the Nexjen Electric Motor Test System is designed to operate for decades without maintenance.

While the power circuit in our electric motor test systems has remained unchanged, the control and management capabilities of the system, incorporated the latest in industrial software technology. A PLC handles the control logic in each system, reducing the number of components and increasing both the reliability and flexibility of the system. Our PC based test documentation system records and displays power, vibration, temperature and dynamometer information during motor tests.

MODEL200KVA AC/DCMODEL #S200MV480ACDCSYSTEM REQUIREMENTSPHYSICAL SPACE REQUIRED72H X 72W X 60DELECTRICAL INPUT (60HZ)480V 275APL-BASED SYSTEM CONTROLSIMPLE, PROGRAMMATIC CONTROL ADJUSTMENTSREAL-TIME SYSTEM STATUS TO TDS SOFTWAREREMOTE/ETHERNET ACCESS FOR SYSTEM TROUBLESHOOTINGAC SUPPLY120V 400AMAX AC CURRENT OUTPUT120V 400AMAX AC VOLTAGE TAPS120,240,480,600,1200,2400,4200OPTIONAL AC VOLTAGE TAPS120,240,480,600,1200,2400,4200OPTIONAL AC VOLTAGE TAPN/APERCENTAGE ADJUSTMENTS FOR EACH VOLTAGE TAPS0%, 60%, 70%, 80%, 90%, 110%, 115%SOFT STARTINGSTANDARDCURRENT LIMIT PROTECTION1 LEVELAUXILIARY AC SUPPLY(3 PHASE, VARRABLE FROM 0 TO MAX 0UTPUT)MAX AUXILIARY AC OUTPUT28A 560VCURRENT LIMIT PROTECTION1 LEVELAUXILIARY AC SUPPLY(VARIABLE FROM 0 TO MAX OUTPUT)MAX AUXILIARY AC OUTPUT28A 560VCURRENT LIMIT PROTECTION1 LEVELDC FIED SUPPLY(VARIABLE FROM 0 TO MAX OUTPUT)MAX ARMATURE OUTPUTS000 28AFIELD LOSS PROTECTION1 LEVELDC FIED SUPPLY(VARIABLE FROM 0 TO TAP SETTING)MAX ARMATURE OUTPUT CURRENT100ASTANDARD2 LEVELSOPTIONAL SYNCHRONOUS DC ARMATURE SUPPLYSIZING AND PRICE DETERMINED BY CUSTOMER TEST REQUIREMENTSTEST DOCUMENTATION SPECIFICATIONSSOFTWAREHARDWAREBASE PACKAGE (STANDARD)ACCUERNENTIN	MOTOR TEST SYSTEM SPECIFICATION	NS
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CHANNEL CONFIGURATION6 ACCELEROMETER INPUTSTEMP AND VIBE REPORTSACCELEROMETERS INCLUDEDDYNAMOMETER INTERFACE (STANDARD)HORSEPOWER / KWUSB OR SERIAL INTERFACE% EFFICIENCY / TORQUE (ft./lb.)CONFIGURED FOR AW DYNOS	TEMP VS. TIME CURVES	4 THERMOCOUPLE INPUTS
TEMP AND VIBE REPORTS ACCELEROMETERS INCLUDED DYNAMOMETER INTERFACE (STANDARD) HORSEPOWER / KW USB OR SERIAL INTERFACE % EFFICIENCY / TORQUE (ft./lb.) CONFIGURED FOR AW DYNOS	VIBRATION FFT GRAPHS	4 RTD INPUTS
DYNAMOMETER INTERFACE (STANDARD) HORSEPOWER / KW USB OR SERIAL INTERFACE % EFFICIENCY / TORQUE (ft./lb.) CONFIGURED FOR AW DYNOS	CHANNEL CONFIGURATION	6 ACCELEROMETER INPUTS
HORSEPOWER / KWUSB OR SERIAL INTERFACE% EFFICIENCY / TORQUE (ft./lb.)CONFIGURED FOR AW DYNOS	TEMP AND VIBE REPORTS	ACCELEROMETERS INCLUDED
% EFFICIENCY / TORQUE (ft./lb.) CONFIGURED FOR AW DYNOS	DYNAMOMETER INTERFACE (STAND	ARD)
	HORSEPOWER / KW	USB OR SERIAL INTERFACE
RPM AND % LOAD USE EXISTING DYNO	% EFFICIENCY / TORQUE (ft./lb.)	CONFIGURED FOR AW DYNOS
	RPM AND % LOAD	USE EXISTING DYNO

200KVA MOTOR TEST SUPPLY

The 200KVA Electric Motor Test Supply will run most 200HP AC motors at full load and most 700HP motors at no load. (AC motors typically draw 25-35% of full load amps with no load). The DC Supply will run most 200HP DC motors at full load, and will start and run most DC motors at no load.



- Engineered for full-capacity AC and DC outputs at rated current for 8 hours.
- Motor starting by current limited Soft starter or with fullvoltage tap adjustments.
- Independent, variable-voltage adjustment on DC Field and Armature Supplies.
- Simple, push-button operation with intuitive controls, clear indicators and LED meters.
- Industrial PLC provides reliable control, real-time system status, simple logic adjustments and remote troubleshooting.
- Operator and System Safeties; E-stop, overload protection, trips and electrical interlocks.
- Transformer Powered by Jenkins Electric Company.



SOFTWARE

STANDARD TEST DOCUMENTATION PACKAGE

The standard Test Documentation Package ships with a PC and Printer, displays real-time AC and DC meter data during tests, records data to a searchable test database and prints a test report to be kept on file and/or provided to the client. (Test reports can be directly saved to ACS job folders).



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UPGRADES & ACCESSORIES

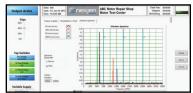
- Auxiliary AC Supply
- Higher Voltage up to 7200
- Synchronous Motor Start

• Fields up to 70 Amps

TEMP AND VIBE MODULE

The Temp and Vibe Module is a portable data acquisition system that connects to the Test Documentation PC via a USB cable. It includes ports for 6 Accelerometers (sensors included), 4 Thermocouples and 4 RTDs. The software upgrade includes the display of Temperature and Vibration data on the meter screen, and graphical display of temperature vs. time curves and vibration fft's. (Optional)





LEAD ISOLATOR BOX

The Lead Isolator Box provides a safe method for isolating the connections between motor leads and test system leads. Fabricated from nonconductive material, the Lead Isolator Box keeps test operators safe from arching between lead connections. (Standard)

BOOM MOUNTED TEST LEADS

The boom mounted test leads provides a safe method for keeping leads out of the way while motors are being tested. (Optional)

DYNAMOMETER INPUT

With a simple connection to an AW Dynamometer Controller the Test Documentation Software displays and records mechanical test data including output power, RPM, % efficiency, and % load and torque. Configuration for non-AW Dynamometers is available and quoted separately. (Standard)

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