TOS5050 WITHSTANDING VOLTAGE TESTER



AC 5 kV Transformer capacity: 500 VA

Outline

The Model TOS5050 is a withstanding voltage tester for AC use only having a transformer capacity of 500 VA and test voltage of 0 to 5 kV.

Functions include Pass/fail judgement (using a window comparator type), remote control function, memory backup function, interlock function and other features that realize high levels of safety, reliability and ease of operation during use by the operator. In addition, the use of a large color display and a considerable reduction in size make the TOS5050 both more legible and easier to handle.

Featur es

- Complies with various safety standards
- AC use only (0 to 5 kV)
- Large color display
- Digital voltmeter and ammeter
- Digital timer
- Window comparator type employed for Pass/fail judgement.
- Equipped with remote control function
- Various signal outputs
- Provided with zero turn-on switch
- Compact size



A high-luminance, fluorescent display tube is employed for display of settings, status and judgement results.

TOS5050

WITHSTANDING VOLTAGE TESTE

H.V ON - Open collector

Specifications

- Test Voltage Applied Voltage Maximum Rated Output Wattage Rating Waveform Voltage Regulation
- Switching Output Voltmeters Scale Accuracy

Indication

Full Scale Response

Ammeter Accuracy

Response

Pass/fail Judgement Function Type of Judgement

Upper Cutoff Current Setting Range Lower Cutoff Current Setting Range Judgement Accuracy Current Detection

Calibration

No-load Output Voltage Test Time Setting Range

Accuracy

Rear Panel

AC only 0 to 2.5/0 to 5 kV AC: 500VA/5 kV, 100 mA (note 1) 500 VA Commercial line waveform Max. 15% (for max. rated load to no load) Use of a zero turn-on switch

Analog: 5 kV full scale Analog: ±5% of full scale Digital: ±1.5% of full scale Analog: Mean value response/rms value scale Digital: 2.5 kV/5 kV full scale Digital: Mean value response/rms value display

Digital: $\pm(5\% + 20\mu A)$ of upper cutoff current Digital: Mean value response/rms value display

- Window comparator type ●FAIL judgement
- * When current detected above upper cutoff current
- * When current detected below lower cutoff current (FAIL signal generated when FAIL judgement made)
- PASS judgement
- * When set time has elapsed and no abnormality is detected
- 0.1 to 110 mA

0.1 to 110 mA

 \pm (5% of upper cutoff current + 20µA) Integration of current absolute value followed by comparison with reference value With rms value of sine wave using a pure resistance load Approx. 460V when set to 100 mA 0.5 to 999 s (timer-off function provided)

±20 ms

(2)(1)(3) (5)

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DANGER - Lamp
TEST - Open collector, fluorescent
display tube
PASS - Open collector, fluorescent
display tube, buzzer
U FAIL - Open collector, fluorescent
display tube, buzzer
L FAIL - Open collector, fluorescent
display tube, buzzer
READY - Open collector, fluorescent
display tube
PROTECTION - Open collector,
fluorescent display tube
STATUS SIGNAL OUTPUT 100V
AC (0.3 A Max.)
Rating of open collector: 4.5 to 30V/
400 mA (Max. Total)
Test and reset operations can be remote
controlled in the following cases:
 When using a separately sold remote
control box
When using a separately sold
highvoltage test probe
 When controlling with a make
contact signal such as a relay or
switch
When using low active control by a
logic device and so on
Testing can no longer be performed
1

when an interlock signal is input (PROTECTION state). 100V±10%, 50/60 Hz (note 2) Max. 25 VA under no-load conditions Approx. 640 VA at rated load $320W \times 132H \times 300D mm$ $(330W \times 150H \times 365D \text{ mm})$ Approx. 15 kg (for line voltage of 100V)

High-voltage test lead TL01-TOS (max. allowable voltage: 5 kV/1.5 m) 14-pin amphenol plug (assembled)

Note 1: Continuous output time may be limited depending on current high limit reference value and ambient temperature.

Note 2: Nominal voltages of 110V, 120V, 220V, 230V and 240V available as factory options.

(1)Signal I/O

■ Signal Outputs

Remote Control

Interlock Function

Power Requirements

■ Dimensions (MAX)

Line Voltage

Weight

Accessories

Input/output connectors for interlock function input/output signals, start/ stop remote control input signals and status output signal.

(2)Test Mode Switch

This is a DIP switch for setting special test modes. Parameter settings such as test start and interruption operations can be changed with this switch. (3)Status Signal Output Terminal

This is a 100V AC output terminal for operating an optional warning lamp unit or buzzer unit. Conditions during AC 100V output (status, judgement results) are set with DIP switches.

(4)Ground Terminal (5)Line Input Terminal (integrated with fuse holder)



1-1-3,HIGASHIYAMATA,TSUZUKI-KU,YOKOHAMA, 224-0023, JAPAN TEL:(+81)45-593-7570, Fax:(+81)45-593-7571

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