



6 fázisáram (6×40A) + 6 fázisfeszültség (6×150V)
kimenet

Beépített ipari PC 10.4"-os LCD-vel

Távvezérlési lehetőség

Nagy-teljesítményű lineáris erősítő

Beépített figyelő és regisztráló rendszer

Beépített GPS

Intelligens önvédelem

Sokféle mérőmodul

The RELAYSTAR-1600 is the universal test set for testing all generations and types of protection relays, which can output 6-phase current(6x0...40A) and 6-phase voltage (6x0...150V). Its powerful current source(6x0...40A, 6x300VA; 1x0...240A, 1x1000VA) is capable of testing high-burden electromechanical relays with very high power demands.

The RELAYSTAR-1600 can be synchronized to perform end-to-end testing with the test sets allocated in different substations through its in-built GPS.

The local software system of RELAYSTAR-1600 is designed based on Windows system. It can either be operated by embedded industrial PC with 10.4" TFT LCD screen or by test software running on a PC.

The RELAYSTAR-1600 is an excellent choice for testing and commissioning engineers to perform protection relay testing on site.

Technical Data

Current Generator

- Setting Range
 - 6-phase AC(L-N) 6x0...40A
 - 3-phase AC(L-N) 3x0...80A
 - 1-phase AC(LL-LN) 1x0...240A
 - DC(L-N) 6x0...±20A
- Power
 - 6-phase AC(L-N) 6x300VA at 40A
 - 3-phase AC(L-N) 3x450VA at 80A
 - 1-phase AC(LL-LN) 1x1000VA at 240A
 - DC(L-N) 6x120VA at 20A
- Accuracy:
 - AC: ±1mA(≤0.2A), <0.1% (0.2~40A)
 - DC: ±5mA(0.2~0.5A), <0.2% (0.5~20A)
- Resolution 1mA

Voltage Generator

- Setting range
 - 6-phase AC(L-N) 6x0...150V
 - 3-phase AC(L-N) 3x0...300V
 - DC(L-N) 6x0...±175V
- Power
 - 6-phase AC(L-N) 6x80VA at 150V
 - 3-phase AC(L-N) 3x100VA at 300V
 - DC(L-N) 6x80VA at 175V
- Accuracy
 - AC: ±2mV (0.2~2V), <0.1% (2~150V)
 - DC: ±10mV (0.5~5V), <0.2% (5~175V)
- Resolution 1mV

Auxiliary DC Supply

- Voltage range: 110V/220V (max.1.5A)
- Power max.165VA/330VA

Binary Inputs

- Number:10
- Input characteristics: dle contact or potential-free contact
- Threshold characteristics: "0": 0... 6V; "1": 12V... 250V
- Max. measuring time: 999999.999s
- Time accuracy / resolution: ±1ms / 1ms

Binary Outputs

- Number: 8
- Type: idle contact
- Break capacity: 250VAC/0.5A, 250VDC/0.2A

In-built Monitoring and Recording

- Monitoring: currents and voltage outputs
- Recording: analog outputs, binary inputs/outputs status
- Mode: real time monitoring, no external wiring is required
- Recording Length: unlimited (until the internal memory is full)

General Generators

- Frequency
 - range: 0~1200Hz
 - accuracy: <1mHz (0~65Hz), <10mHz (65~450Hz), <20mHz (450~1200Hz)
 - resolution: 0.001Hz
- Phase
 - range: -360° ~ +360°
 - accuracy: 0.1°
 - resolution: 0.01°
- Harmonic
 - superposition order: 2~24 times
 - distortion: ≤0.5%

Power Supply

- Nominal input voltage: customized (AC 220V/230V/110V/120V ±10%, 1-phase)
- Nominal frequency: 50/60 Hz
- Rated current: 10A at 230V / 12A at 115V
- Connection: Standard AC socket (IEC 60320)

Environmental Conditions

- Operation temperature: 0 ... +50°C
- Storage temperature: -25 ... +70°C
- Humidity range: relative humidity 5 ... 95%, non-condensing
- Vibration: IEC 60068-2-6 (20m/s² at 10 ... 150 Hz)

Miscellaneous

- Weight:18kg
- Dimensions (W x H x D, without handle): 420×360×210mm

EMC, érintésvédelem

- EMC: The product adheres to the electromagnetic compatibility (EMC) Directive 2004/108/EC(CE conform). IEC 61326-1; IEC 61000-6-4; IEC 61000-3-2/3
- Érintésvédelem: the product adheres to the low voltage Directive, 2006/95/EC(CE conform). IEC 61010-1

Certifications

- ISO 9001, ISO 14001, OHSAS 18001, CE, Tet Report, Calibration Report