

KINGSINE K3040 Protection Relay Test Set



K30 series relay tester is extremely design for overseas user, with Friendly PC software as your need, unique features and functions helps you all the way!

1. Unique self-protection system assure the powerful protection when instrument is operating, automatic stop the output when the network is abnormal ;
2. Unique power switch and amplifier technology, so the output precision and power efficiency and factor are increased, which conforms to international tendency of energy save and environmental protection;
3. With alarm function of housing grounding testing and external voltage input, to guaranty personal security;
4. Two in one of meter and source, with function of both internal and external testing, self-calibration, oscillograph, and the duration of each oscillograph reaches 50S (optional function);
5. Offer independent Aux. DC to tested devices, 0 ~ 300V/0.6A (Poleless and adjustable);
6. Function of transducer and energy meter testing (optional function);

7. Testing interface offer unique output monitoring function and Pre-curve-tracing function, helps more on the spot analysis;

Technical Data of K3040

| Voltage generators | | |
|---------------------|-------------------|--|
| Setting Range | 4-phase AC (L-N) | 4 x 0 ... 130 V |
| | 2-phase AC (L-L) | 2 x 0 ... 260 V |
| Power | 4-phase AC (L-N) | 4 x 70VA, at 0 ... 130 V |
| | 2-phase AC (L-L) | 2 x 140VA, at 0 ... 260 V |
| Accuracy | | <0.07% reading + 0.03% range guaranteed at 0 ... 130 V <0.02% reading + 0.01% range typical at 0-130V |
| Resolution | | 1mV |
| Current generators | | |
| Setting Range | 3-phase AC (L-N) | 3 x 0 ... 40 A |
| | 1-phase AC (2L-N) | 1 x 0 ... 80 A |
| | 1-phase AC (3L-N) | 1 x 0 ... 120 A |
| Power | 3-phase AC (L-N) | 3x 450VA , at 0 ... 40A |
| | 1-phase AC (2L-N) | 1x 520VA, at 0 ... 80A |
| | 1-phase AC (3L-N) | 1 x 1200 VA, at 0 ... 120A (Max.) |
| Accuracy | | <0.07% reading + 0.06% range guaranteed at 0-40A <0.02% reading + 0.02% range typical at 0-40A |
| Resolution | | 1mA |
| Generators, general | | |
| Frequency | Range | 0 ... 1000 Hz |
| | Accuracy / drift | Error < 0.001Hz at 10 ... 65Hz, Error < 0.01Hz at 65Hz...450Hz Error < 0.02Hz at 450Hz...1000Hz |
| | Resolution | 0.001Hz |
| Phase | Range | - 360° ... +360° |
| | Accuracy / drift | Error < 0.2 ° |
| | Resolution | 0.1° |
| Timer | Range | Infinite |
| | Accuracy / drift | Error<0.1ms |

| | |
|--------------------------|---|
| DC generators | |
| Voltage ranges | 0 ... 300V/180W |
| Current ranges | 0 ... 20A/300W |
| Accuracy | <0.07% reading + 0.03% range guaranteed at 0-300V <0.04% reading + 0.02% range typical at 0-300V |
| | <0.14% reading + 0.06% range guaranteed at 0-20A <0.05% reading + 0.02% range typical at 0-20A |
| Resolution | 1mA; 1 mV |
| Aux DC Supply | |
| Range | 0...300V/0.6A |
| Binary inputs | |
| Number | 8 pairs |
| Compatible Voltage | 10V ... 250V DC |
| Binary outputs | |
| Number | 4 Pairs |
| Capacity | 250V/3A AC/DC |
| Synchronization | |
| Synchronization mode | GPS |
| Harmonic | |
| Harmonic overlap times | 2 ... 20 times |
| Power supply | |
| Nominal input voltage | 220V AC±20% |
| Power | 1000VA |
| Nominal frequency | 47Hz...65Hz |
| Environmental conditions | |
| Operation temperature | -5°C ... 55 °C |
| Storage temperature | -20°C ... 75 °C |
| Humidity range | 5% ... 90 %, non-condensing |
| Weight | 20 KG |
| Dimensions | 460(D)×140 (W)×360 (H) mm |
| PC connection | RJ45 |

K30 Series Protection Relay Test Set:

| Model | Channels | AC Outputs |
|------------------|--------------------|--------------------|
| K3063i / K3063Li | 10 output channels | 6*30A/3*40A/4*300V |
| K3030i / K3030Li | 7 output channels | 3*30A/4*300V |

| | | |
|-------|--------------------|--------------------|
| K3066 | 13 output channels | 6*20A/3*40A/7*130V |
| K3063 | 10 output channels | 6*20A/3*40A/4*130V |
| K3040 | 7 output channels | 3*40A/4*130V |
| K3030 | 7 output channels | 3*30A/4*130V |

Major functions:

| Items | IEEE(R) No. |
|---|-------------|
| Synchronization relay | |
| Fault transplay | |
| GPS Synchronization | |
| Overcurrent relays | 50/76 |
| Inverse time overcurrent relays | 51 |
| Undercurrent relays | 37 |
| Ground fault relays | 50 |
| Directional overcurrent relays | 67 |
| Directional ground fault relays | 67N |
| Overvoltage relays | 59 |
| Undervoltage relays | 27 |
| Directional voltage relays | 91 |
| Directional power relays | 32 |
| Power factor relays | 55 |
| Differential protection (differential circuits) | 87 |
| Distance protection equipment (phase by phase) | 21 |
| Negative sequence overcurrent relays | 46N |
| Motor overload protection | 51/86 |
| Automatic reclosing devices | 79 |
| Tripping relays | 94 |
| Voltage regulating relays | |
| Overimpedance relays, $Z >$ | |
| Underimpedance relays, Z | |
| Time-delay relays | |