

CSU600A/AT

Current supply units



- **Compact and rugged**
- **Quick and easy to use**
- **Broad application range**
- **Excellent weight/performance ratio**

Description

These high-current supply units have two main fields of application. The first is to conduct primary tests on protective relays. A primary test shows whether all parts of the protection system are functioning together properly within the specified time limits under operating conditions.

The second field of application involves conducting current tests on low-voltage circuit breakers and overcurrent devices.

The CSU600A™ is a compact instrument which, together with Timer TM200™ and an external ammeter, meets stringent requirements for accuracy, easy handling and performance. This current supply unit is ideal for a) performance and turn-ratio tests of current transformers, b) primary tests of protective relays, c) current tests on low- and high-voltage circuit breakers and d) commissioning tests that require variable currents.

The CSU600AT™ provides a more comprehensive solution. It has a built-in timer and an analog ammeter that provide rough current settings quickly and easily. As a result, connection time has been reduced to the bare minimum.

The CSU600A and CSU600AT current supply units have an excellent weight/performance ratio.

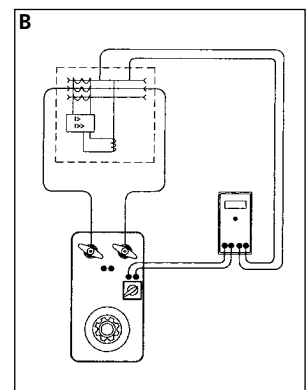
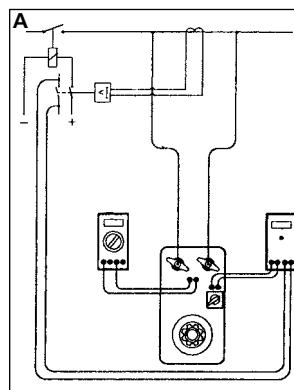
Application example

IMPORTANT

Read the User's manual before using the instrument.

Primary test of protective relay equipment and low-voltage circuit breaker

1. Connect the CSU600A's current outputs across the current transformer (diagram A) or to the breaker terminals (diagram B).
2. Connect Timer TM200's start input to output T and the stop input to the protective relay equipment's auxiliary contact.
3. Set the current.
4. Execute the test.
5. Read the time from TM200.



Specifications

Specifications are valid at nominal input voltage and an ambient temperature of +25°C, (77°F). Specifications are subject to change without notice.

Environment

Application field The instrument is intended for use in high-voltage substations and industrial environments.

Temperature

Operating 0°C to +50°C (32°F to +122°F)
Storage & transport -40°C to +70°C (-40°F to +158°F)

Humidity 5% – 95% RH, non-condensing

CE-marking

EMC 2004/108/EC
LVD 2006/95/EC

General

Mains voltage 115 or 230 V AC, 50/60 Hz
Power consumption (max) 115 V, 667 VA cont. (intern. 3738 VA)
230 V, 851 VA cont. (intern. 6440 VA)

Protection Thermal cut-outs and miniature circuit breakers

Dimensions

Instrument 356 x 203 x 241 mm
(14.0" x 8.0" x 9.5")

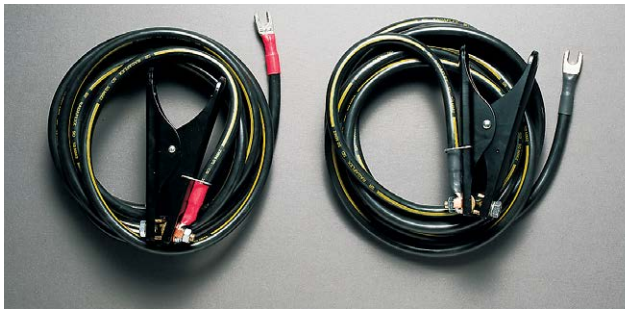
Transport case 610 x 290 x 360 mm
(24.0" x 11.4" x 14.2")

Weight 21.9 kg (48 lbs)
38.3 kg (84.4 lbs) with accessories and carrying case

Current cables 2 x 5 m (16 ft), 50 mm²



Cable set GA-07052. Cable cross section area 70 mm² and 100 mm clamp jaw width. The sets GA-07102 and GA-09152 have the same clamps.



Cable set GA-05052. Cable cross section area 70 mm²

Measurement section

Output for external ammeter 600/6 A
Inaccuracy ±0.5%

Timer (only CSU600AT)

Range 0-999.999 s
Resolution 1 ms
Inaccuracy ±0.02% of shown value + 0 to 2 ms

Other Output for starting external timer

Outputs, AC, intermittent output ¹⁾ (CAT I)

| Current | 115 V mains voltage | | 230 V mains voltage | |
|---------|---------------------|------------------------|---------------------|------------------------|
| | Load time | Minimum output voltage | Load time | Minimum output voltage |
| 0 A | Cont. | 6.0 V | Cont. | 9.5 V |
| 75 A | – | – | Cont. | 9.3 V |
| 100 A | Cont. | 5.6 V | 1 h | 9.0 V |
| 200 A | 15 min | 5.3 V | 5 min | 8.5 V |
| 300 A | 1.5 min | 4.9 V | 2 min | 8.0 V |
| 400 A | 1 min | 4.6 V | 1 min | 7.5 V |
| 500 A | 20 s | 4.2 V | 30 s | 7.0 V |
| 600 A | 15 s | 3.9 V | 20 s | 6.5 V |

¹⁾ Maximum load time from cold state 25°C (77°F). Not valid for repeated tests.

Maximum cable lengths at 600 A

115 V mains 2 x 5 m (16 ft), 70 mm²
230 V mains 2 x 5 m (16 ft), 50 mm²
2 x 10 m (33 ft), 70 mm²
2 x 15 m (49 ft), 95 mm²

Ordering information

| Item | Art. No. |
|--|----------|
| CSU600A Complete with: Cable set GA-05052, Transport case GD-00182 | |
| 115 V Mains voltage | BF-11190 |
| 230 V Mains voltage | BF-12290 |
| CSU600AT Complete with: Cable set GA-05052, Transport case GD-00182 | |
| 115 V Mains voltage | BF-21190 |
| 230 V Mains voltage | BF-22290 |
| Optional | |
| Cable set 5 m (for 115 V) 2 x 5 m (16 ft), 70 mm ² Weight: 8.4 kg (18 lbs) | GA-07052 |
| Cable set 10 m 2 x 10 m (33 ft), 70 mm ² Weight: 16.8 kg (37 lbs) | GA-07102 |
| Cable set 15 m 2 x 15 m (49 ft), 95 mm ² Weight: 29.4 kg (65 lbs) | GA-09152 |
| TM200 External timer See the TM200 for more information | BE-29090 |

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