

Datasheet



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Megger.

B10E AC/DC Voltage Power Supply



- Reliable and stable power supply for circuit breaker testing
- Continuously variable 24-250 V AC or DC output
- Separate outputs for close coil, trip coil and spring charging motor voltage
- Direct triggering for minimum trip voltage testing
- Operate with a breaker analyzer for efficiency in testing sequence

DESCRIPTION

A variable DC voltage is needed to test a circuit breaker. Substation batteries should not be used since this entails considerable risk for testing personnel, testing equipment and also for the equipment being tested. The best way to ascertain whether or not solenoids and protective mechanisms are sluggish or working properly is to perform a test at minimum tripping voltage. The minimum trip voltage test is described in international and national standards such as IEC 62271-100, ANSI C37.09 etc.

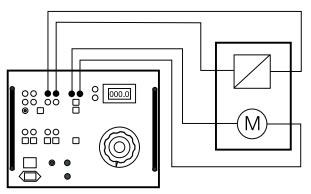
B10E can be used to test breaker coils in this manner. It provides a ripple-free variable DC voltage that can easily accommodate a high, variable load.

Since there is a separate output for supplying spring-charging motors, the B10E is ideal for testing circuit breakers where auxiliary voltage is not connected or available.

The compact Power Supply Unit B10E provides reliable assistance to those who do maintenance on high-voltage breakers. The control panel's intuitive layout makes it easy to operate, and the built-in thermal cutout and overload protector make it safe to use. The B10E has been developed in collaboration with breaker manufacturers and testing personnel.

APPLICATION

The B10E is a portable self contained test set designed specifically for use in substations and industrial locations. The B10E is intended for testing medium and high-voltage power circuit breakers. Using the latest technology the B10E uses a ripple free variable DC voltage to operate breaker coils, and charging motors to ascertain the condition of these devices with respect to the manufacturer's original specifications.

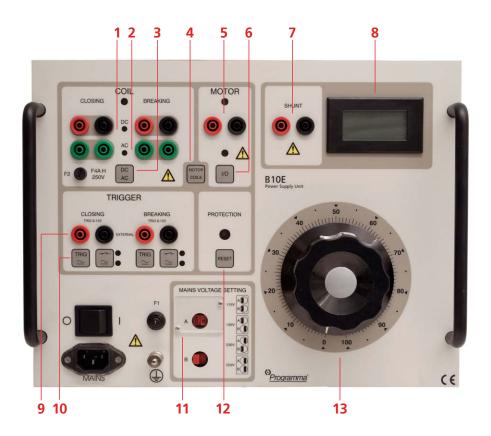


Testing the minimum trip voltage of a breaker.

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FEATURES AND BENEFITS

- 1. Output for DC voltage supplied to closing/breaking coil
- 2. Output for AC voltage supplied to closing/breaking coil
- 3. Changeover switch used to select either DC or AC coil outputs
- 4. Changeover switch used to select either coil outputs or springcharging motor outputs
- 5. DC voltage outputs for spring-charging motor. Provide unsmoothed, half-wave rectified DC ranging up to 18 A
- 6. Button for turning on spring-charging motor voltage
- 7. Current shunt used to measure external current in coils or spring-charging motor
- 8. Digital voltage readout display for voltage selection
- 9. Inputs for external trig signal or short-circuiting jumper
- 10. Buttons (2+2):
 - For manual trigging pulse via coil outputs.
 - Changeover switches used to select either contact sensing or voltage sensing at the trig input
- 11. Changeover switches (A) and (B) for incoming power 115/230/135/250 V AC
- 12. Reset button for thermal, overload and/or time-limit cut-outs
- 13. Variable transformer





SPECIFICATIONS B10E

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

Environment

Environment	
Application field	The instrument is intended for use in medium and 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	115/230 (135/250) V AC, 50/60 Hz
Power consumption (max)	3300 W
Protection	Thermal cut-outs, +80°C (+176°F) Short-circuit protectors at DC outputs
Dimensions	
Instrument	350 x 270 x 220 mm (13.8″ x 10.6″ x 8.7″)
Transport case	610 x 290 x 360 mm (24.0" x 11.4" x 14.2")
Weight	20.8 kg (45.8 lbs) 29.3 kg (64.6 lbs) with accessories and transport case
Test lead set, with 4 mm	2 x 0.25 m (0.8 ft), 2.5 mm ²
stackable safety plugs	2 x 0.5 m (1.6 ft), 2.5 mm² 8 x 2 m (6.6 ft), 2.5 mm²
Display	LCD
Measurement section	
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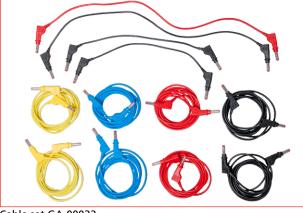
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0 – 300 V DC, 0 – 300 V AC
1 V
±1% of displayed value, DC ±2.5% of displayed value, AC
5 A/50 mV ±0.5% (built-in)

Outputs (DC), CATII COIL, CLOSING/BREAKING

Output voltage 24-300 V DC						
Load interval		Max 1 s (at currents over 50 mA)				
Ripple		2% peak-to-peak of the preset volt-				
		ge		_		
No-load voltage (V)			Load dependency			
24	10		<6%			
48	10		< 3 %			
110	7.9		<2%			
250	3		<2%			
300		1.25		< 2 %		
Outputs (AC), CATII COIL, CLOSING/BREAKING						
Output voltage		24-300 V A	C			
Load current		Max 5 A				
Load interval		Max 30 min				
Output DC, CATII MOTOR						
Output voltage		24-300 V D0	(loaded)			
Open circuit volt- age (V)	Curre (A)	ent Load (V)	voltage	Max load interval (s)		
			voltage			
age (V)	(A)	(V)	voltage	interval (s)		
age (V) 44	(A) 18	(∨) 24	voltage	interval (s) 20		
age (V) 44 48	(A) 18 12	(∨) 24 40	voltage	interval (s) 20 60		
age (V) 44 48 48	(A) 18 12 18	(V) 24 40 30	voltage	interval (s) 20 60 20		
age (V) 44 48 48 120	 (A) 18 12 18 12 12 	(V) 24 40 30 90	voltage	interval (s) 20 60 20 60		
age (V) 44 48 48 120 120	 (A) 18 12 18 12 18 12 18 18 	(V) 24 40 30 90 70	voltage	interval (s) 20 60 20 60 20		
age (V) 44 48 48 120 120 240	 (A) 18 12 18 12 18 6 9 	(V) 24 40 30 90 70 200 185	-	interval (s) 20 60 20 60 20 60 20		
age (V) 44 48 48 120 120 240 240	 (A) 18 12 18 12 18 6 9 	(V) 24 40 30 90 70 200 185	-	interval (s) 20 60 20 60 20 60 20		
age (V) 44 48 48 120 120 240 240 Max voltage: Term	 (A) 18 12 18 12 18 6 9 	(V) 24 40 30 90 70 200 185 to protect	-	interval (s) 20 60 20 60 20 60 20		
age (V) 44 48 48 120 120 240 240 240 Max voltage: Term Terminal	 (A) 18 12 18 12 18 6 9 inals 	(V) 24 40 30 90 70 200 185 to protect Voltage	-	interval (s) 20 60 20 60 20 60 20		
age (V) 44 48 48 120 120 240 240 240 Max voltage: Term Terminal Coil closing, AC & DC	 (A) 18 12 18 12 18 6 9 inals 	(V) 24 40 30 90 70 200 185 to protect Voltage 300 V AC	-	interval (s) 20 60 20 60 20 60 20		
age (V) 44 48 48 120 120 240 240 Max voltage: Term Terminal Coil closing, AC & DC Coil breaking, AC & DC	 (A) 18 12 18 12 18 6 9 inals 	(V) 24 40 30 90 70 200 185 to protect Voltage 300 V AC 300 V AC	-	interval (s) 20 60 20 60 20 60 20		
age (V) 44 48 48 120 120 240 240 240 Max voltage: Term Terminal Coil closing, AC & DC Coil breaking, AC & DC Motor	 (A) 18 12 18 12 18 6 9 inals 	(V) 24 40 30 90 70 200 185 to protect Voltage 300 V AC 300 V AC 250 V AC	-	interval (s) 20 60 20 60 20 60 20		

ORDERING INFORMATION



Cable set GA-00032

Postal address Megger Sweden AB Box 724 SE-182 17 Danderyd SWEDEN

T. 08 510 195 00 E. seinfo@megger.com B10E_DS_en_V04a Printed matter: Art.No. ZI-BG04E
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Registered to ISO 9001 and 14001 The word 'Megger' is a registered trademark

Item

B10E

Included accessories: Cable set GA-00032 Transport case GD-00182

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Art. No.

BG-29092

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LOCATIONS

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