Coil Tester & Breaker Supply POB30D

- Lightweight - only 9,20 kg
- Powerful – up to 30 A
- Voltage 10 V to 300 V DC
- Ripple free (true DC) voltage
- Output protection
- Fully automatic operation

Powerful DC power supply for a circuit breaker test

The Coil Tester & Breaker Supply POB30D is a powerful tool for testing circuit breakers, where a substation battery is not connected or available. It operates the circuit breaker coils and spring charging motors as a part of commissioning and maintenance testing.
The POB30D generates true DC (ripple free) voltage and can also be used to test a minimum trip voltage of the circuit breaker coils. The output voltage is selectable from 10 V to 300 V DC.
This device is a powerful and a versatile unit which, at 230 V mains supply, is capable of generating the initial current of 30 A as well as the continuous currents as presented in the table below:

Mains Voltage	Load Voltage	Max Current	Max load interval
230 V	110 V DC	24 A 20 A 10 A	20 sec 60 sec continuous
	220 V DC	12 A 10 A 7 A	20 sec 60 sec continuous
115 V	110 V DC	12 A 10 A 7 A	20 sec 60 sec continuous
	220 V DC	7 A 6 A 5 A	20 sec 60 sec continuous

The set is equipped with thermal and overcurrent protection. The POB30D is easy to use and has the accessory cable-set with touch-proof contacts. Thanks to a proprietary hardware and software design solution, it is capable of canceling electrostatic and electromagnetic interference in HV electric fields.

Application

The POB30D is used in switchyards, power and industrial environment, in manufacturing, in commissioning and as well in maintenance of the circuit breakers for:

- operating circuit breakers
- supplying spring-charging motors
- power supply at test with breaker analyzers
- minimum trip voltage-test of the circuit breaker's coils

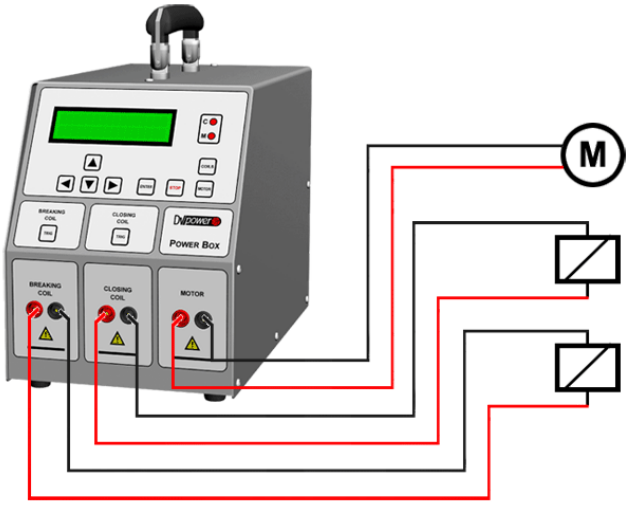
The POB30D has a built-in capability to perform automatic test of minimum trip voltage. The minimum trip voltage test is described in a number of international and national standards such as IEC 62271-100, ANSI C37.09 etc. Performing tests and acquiring of many other important parameters are possible with circuit breaker analyzers.
The POB30D is then used as a power supply unit. It is compatible with breaker analyzers from different vendors. The POB30D can also be used as a general power supply unit or temporary battery charger.

Automatic testing of the minimum trip voltage of a breaker

Procedure steps:

1. The circuit breaker mains terminals have to be de-energized and safety grounded on both sides and the auxiliary (control) circuit as well. The local safety regulations should be followed.
2. Connect Power supply unit POB30D to the breaker's coil circuit.
3. Set the minimum test voltage.
4. Set the step voltage.
5. Set the maximum voltage.
6. Press the TRIG key

Connecting the POB30D to the test object



Accessories

Included accessories

- Mains power cable
- Ground (PE) cable

Recommended accessories

- Cable set 6 x 2 m 2,5 mm2
- Device bag
- Cable bag

Optional accessories

- Cable set 6 x 5 m 2,5 mm2
- Transport case

Transport case

Cable set

Ordering information:

Art.No.	Description
POB30D-N-00	POB30D device with ground cable
C6-02-02BPBP	Cable set 6 x 2 m 2,5 mm2
DEVIC-BAG-00	Device bag
CABLE-BAG-00	Cable bag

Art.No.	Description
C6-05-02BPBP	Cable set 6 x 5 m 2,5 mm2
HARD-CASE-00	Transport case

Technical Data

1 - Mains Power Supply

• Connection	according to IEC/EN60320-1; UL498, CSA 22.2
• Voltage	90 V – 264 V AC, 50/60 Hz, Single phase
• Power consumption	3000 VA

2 - Output data

• Coils output DC Voltage	10 V to 300 V DC
• Motor output DC Voltage	10 V to 250 V DC
• Output current	max 30 A

3 - Measurement

• Voltage	10 V – 300 V DC
• Current	1 A – 50 A
• Accuracy	± (0,25% rdg + 0,25% FS)

5 - Environment conditions

• Operating temperature	–10°C - +55°C / 14 F – 131 F
• Storage and transportation	–40°C - +70°C / -40 F – 158 F
• Humidity	Maximum relative humidity 95%, non-condensing

6- Dimensions and Weight

• Dimensions	205 mm x 287 mm x 367 mm 8,1 in x 11,3 in x 14,45 in (W x H x D) with handle down
• Weight	9,20 kg / 20,28 lbs

7- Mechanical protection

IP 43

8 - Warranty

three years

9 - Safety Standards

• European standards	LVD 2006/95/EC (EN 61010-1)
• International standards	IEC 61010-1 UL 3111-1 CAN/CSA-C22.2 No 1010.1-92

10 - Electromagnetic Compatibility (EMC)

• CE conformity	EMC standard 2004/108/EC
• - Emission	EN 61326-1
• - Immunity	EN 61326-1

All specifications herein are valid at ambient temperature of + 25 °C and recommended accessories.
Specifications are subject to change without notice.