DV power

Coil Tester & Breaker Supply

POB30ADL

- Lightweight - only 9 kg
- Powerful – up to 30 A
- Voltage 1 V to 50 V DC
- Voltage 1 V to 40 V AC
- Output protection
- Fully automatic operation

Powerful DC and AC power supply for a circuit breaker test

POB30ADL is a variable voltage power supply unit ideal for testing circuit breakers, where substation battery is not connected or available. The POB30AD is intended to operate breaker coils, and spring charging motors as a part of commissioning and maintenance testing.
POB30AD generates true DC (ripple free) or AC voltage and can test minimum trip voltage of power circuit breakers. Output voltage is selectable from 1 V to 50 V DC or from 1 V to 40 V AC.
The POB30AD is powerful and versatile unit, with possibility to generate at 230 V mains supply initial current of 30 A as well as continuous current according to the tables below:

Mains Voltage	Load Voltage	Max Current	Max load interval
115 V/230 V	5 V	24 A 20 A 10 A	20 sec 60 sec continuous
	15 V	24 A 20 A 10 A	20 sec 60 sec continuous
	25 V	24 A 20 A 10 A	20 sec 60 sec continuous

The set is equipped with thermal and overcurrent protection. POB30ADL is easy to use and has accessory cable-set with touch-proof contacts.
The POB30ADL has very high ability to cancel electrostatic and electromagnetic interference in HV electric fields. It is achieved by very efficient filtration. The filtration is made utilizing proprietary hardware and software.

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Applications

POB30ADL is developed for use in switchyards, electric power and industrial environment. An important part of commissioning and maintenance testing is a circuit breaker testing. POB30ADL is possible to use 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

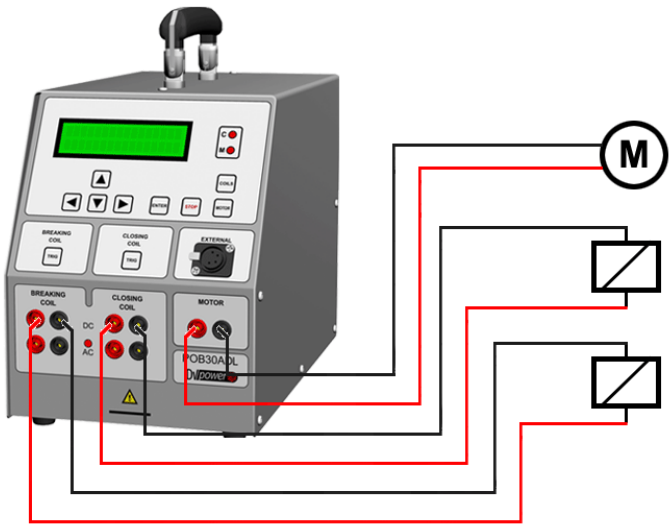
POB30ADL have built-in capability to perform automatic test of minimum trip voltage. The minimum trip voltage test is described in a number of international and national standards such as IEC 62271-100, ANSI C37.09 etc. Many other important parameters are possible to test with a breaker analyzer. POB30ADL is then used as a power supply unit. It is compatible with breaker analyzers from different vendors. POB30ADL can also be used as general power supply unit or temporary battery charger.

Automatic testing of the minimum trip voltage of a breaker

Procedure steps:

1. Make certain that the mains are de-energised on both sides of the breaker, safety grounded and that local safety regulations are followed.
2. Connect Power supply unit POB30ADL to the breaker's coil circuit.
3. Set the minimal test voltage.
4. Set the step voltage.
5. Set the maximal voltage.
6. Press TRIG button.

Connecting a test object to POB30ADL



Included accessories

- ✓ Mains power cable
- ✓ Ground (PE) cable

Recommended accessories

- ✓ Cable set 6 x 2 m 2,5 mm^2
- ✓ Device bag
- ✓ Cable bag

Optional accessories

- ✓ Cable set 6 x 5 m 2,5 mm^2
- ✓ Transport case
- ✓ Extern trigger cable set 2 m

Transport case

Cable set

External Trigger cable

Ordering information:

Art.No.	Description
POB30AD-N-01	POB30ADL 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
TC-02-04MCBP	Extern trigger cable set 2 m

Technical data

1 - Mains Power Supply

- Connection	according to IEC/EN60320-1; UL498, CSA 22.2
- Voltage single phase	110 V – 240 V AC, +10% - –15%
- Frequency	50/60 Hz

2 - Output data

- Coils output DC Voltage	1 V to 50 V DC
- Coils output AC Voltage	1 V to 40 V AC; 50 Hz; true RMS
- Motor output DC Voltage	1 V to 50 V DC
- Output current	max 30 A

3 – Measurement

- Voltage	1 V – 50 V DC or 1 V – 40 V AC
- Current	1 A – 50 A
- Accuracy	± (0,5% rdg + 0,5% FS)

4- Environment conditions

- Operating temperature	–10 °C - +55 °C / 14 °F - +131 °F
- Storage and transportation	–40 °C - +70 °C / -13 °F - +158 °F
- Humidity	5% – 95% relative humidity, non-condensing

5 - Dimensions and Weight

- Dimensions	198 mm x 255 mm x 380 mm 7,8 in x 10 in x 15 in (W x H x D) without handle
- Weight	9 kg/19,8 lbs

6- Mechanical protection IP43

7- Warranty three years

8 – Safety Standards

- European standards	LVD 2006/95/EC EN 61010-1
- International standards	IEC 61010-1 UL 61010-1 CAN/CSA-C22.2 No. 61010-1, 2nd edition, including Amendment 1

9 – Electromagnetic Compatibility (EMC)

- CE conformity	EMC directive 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.