

METREL test and measurement accessories:



Three-phase adapter with switch

A 1111

Instruction manual

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Distributor:

Manufacturer:

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Mark on your equipment certifies that it meets requirements of all subjected EU regulations

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1 Preface


Congratulations for purchasing and using METREL A 1111 Three-phase adapter with switch accessory with METREL test and measuring instruments. The A 1111 is designed for interfacing between three-phase power supply system and attached instrument for measurements on the three-phase system.

A 1111 Three-phase adapter with switch is special accessory intended for using only with METREL installation testers.

2 Safety and operational considerations

2.1 Warnings and notes

In order to reach high level of operator's safety while carrying out various tests and measurements using A 1111 as well as to keep the test accessory and equipment undamaged, it is necessary to consider the following general warnings:

-  **Warning on the A 1111 means »Read the Instruction manual with special care to safety operation«. The symbol requires an action!**
- **If the A 1111 is used in a manner not specified in this Instruction manual or the manual of target test equipment, the protection provided by the A 1111 and equipment may be impaired!**
- **Read this Instruction manual carefully, otherwise use of the A 1111 may be dangerous for the operator, for test equipment or for the tested object!**
- **Do not use the A 1111 if any damage is noticed!**
- **Consider all generally known precautions in order to avoid risk of electric shock while dealing with hazardous voltages!**
- **Never use the A 1111 in supply systems with voltages higher than rated!**
- **Service intervention is allowed to be carried out only by a competent authorized person!**
- **All normal safety precautions have to be taken in order to avoid risk of electric shock when working on electrical installations!**

2.2 Standards applied

The A 1111 Three-phase adapter with switch is manufactured and tested according to the following regulations, listed below.

Safety (LVD)

EN 61010 - 031 Safety requirements for hand-held probe assemblies for electrical measurement and test

Note about EN and IEC standards:

Text of this manual contains references to European standards. All standards of EN 6xxxx (e.g. EN 61010) series are equivalent to IEC standards with the same number (e.g. IEC 61010) and differ only in amended parts required by European harmonization procedure.

3 A 1111 description

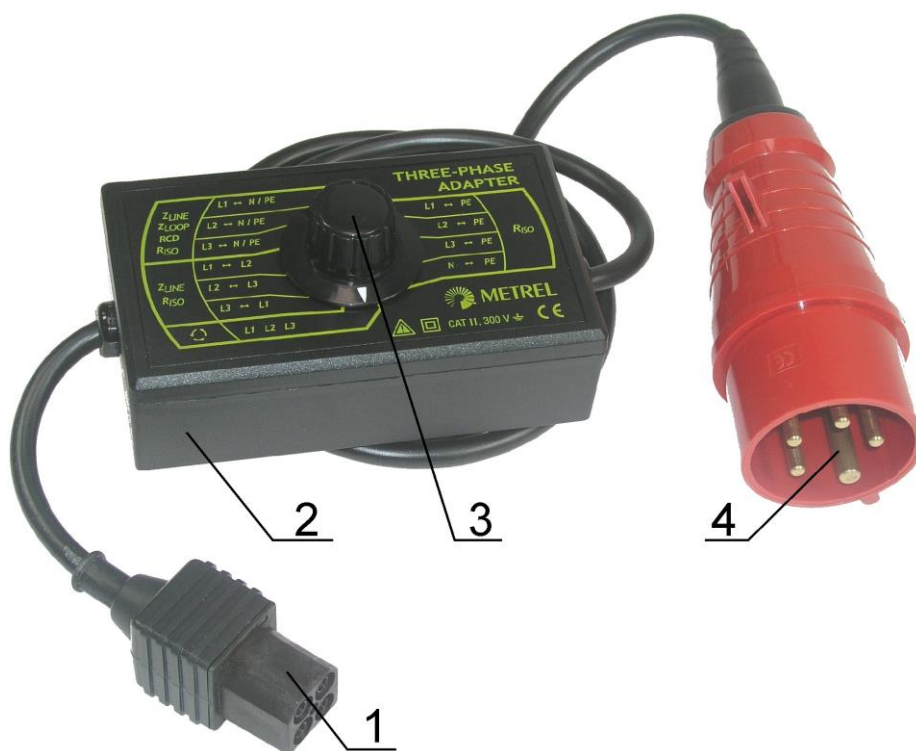


Figure 3.1: A 1111 parts

Legend:

- | | |
|---|-------------------------------------|
| 1 | Connections for installation tester |
| 2 | Three-phase adapter case |
| 3 | Rotary switch selector |
| 4 | Three-phase connector |

⚠ Maximum rated voltage to ground is 300 V, CAT II!

Warning!

- **Maximum allowed voltage between any test terminal and ground is 300 V and between test terminals is 440 V!**

4 A 1111 operation

- Connect the A 1111 to the instrument and to three-phase wall socket.
- Select measuring function of the instrument.
- Select desired measurement of the three-phase system by rotary switch on the A 1111.
- Press the START (TEST) key to start the measurement.
- After finished measurement press SAVE (MEM) key to store result (optional).
- Rotate the A 1111 rotary switch to the next measurement
- Repeat the measurement / storage.
- Repeat sequences above until it is necessary.

5 Maintenance

Unauthorized person is not allowed to open the A 1111. There are no user replaceable components inside the A 1111.

5.1 Cleaning

No special maintenance is required for the housing. To clean the surface of the A 1111, use a soft cloth slightly moistened with soapy water or alcohol. Then leave the A 1111 to dry totally before use.

Warnings:

- ❑ Do not use liquids based on petrol or hydrocarbons!
- ❑ Do not spill cleaning liquid over the A 1111!

5.2 Service

For repairs under warranty, or at any other time, please contact your distributor.

6 Technical specifications

6.1 General data

Protection classification double insulation

Pollution degree..... 2

Protection degree IP 40

Overvoltage category..... 300 V CAT II

Dimensions (w × h × l) 7 cm × 8.5 cm × 14.5 cm

Test lead(s) length 1.5 m

Weight 0.5 kg

Operation conditions

Working temperature range 0 °C ÷ 40 °C

Maximum relative humidity 95 %RH (0 °C ÷ 40 °C), non-condensing

Storage conditions

Temperature range -10 °C ÷ +70 °C

Maximum relative humidity 90 %RH (-10 °C ÷ +40 °C)

80 %RH (40 °C ÷ 60 °C)