1 Application

Using the CEE adapter AT 3-med, you can connect quickly and easily equipment fitted with a 5-pin CEE plug 16A/6h to testers for testing portable appliances according to DIN VDE 0701/0702 or DIN VDE 0751/ IEC 601.
For connection to the device under test the tester only requires a safety outlet. Using the CEE adapter, the following tests can be carried out on appliances equipped with a CEE plug:

- Continuity test of the protective conductor
- Insulation test
- Measurement of equivalent leakage current
- Measurement of earth leakage current

The CEE adapter must only be used in connection with the appliance tester SECUTEST 0751/601. In particular, it must not be used for permanent connection for any other three-phase equipment!

2 Safety features and precautions

The CEE adapter is constructed and tested in compliance with the safety requirements IEC 61010-1 / EN 61010-1 / VDE 0411-1.

When properly used, the safety of both the adapter and the user is assured.

Please read the operating instructions of both the adapter and the appliance tester carefully and completely and follow them in all respect.

The CEE adapter must only be used for testing equipment with a 5-pin CEE plug and a power consumption of max. 3 x 16 A.

The CEE adapter AT 3-med must not be used

- when the case is open
- when it shows obvious signs of damage
- with the CEE outlet or connection lead broken or damaged
- after severe stress, that is when the characteristics of the load limits given in the specifications are exceeded
- after prolonged storage under adverse conditions (e.g. humidity, dust, temperature)

Meaning of symbols on the adapter

	Warning of danger (Attention: note documentation !)
CAT II	Overvoltage category II
CE	CE mark

3 Connecting the AT 3-med

Before testing connect the CEE adapter to the SECUTEST appliance tester and to the line. Proceed as follows:

- ➪ Connect the power cable of the SECUTEST appliance tester to the safety outlet marked with “Appliance tester“ on the AT 3-med.
- ➪ Connect the power cable of the AT 3-med to the line test outlet of the appliance tester. The connection on the AT 3-med is marked „to applicance tester“.
- ➪ Plug in the CEE connection lead of the AT 3-med to a suitable CEE outlet 16A/6h of your electrical system.
  The connector on the AT 3-med is marked „Mains 3~ 230/400 V, 16 A 50 ... 60 Hz“. Now your AT 3-med ist connected to the line.
- ➪ Finally connect the device under test to the CEE outlet of the AT 3-med. This outlet is marked “Test socket appliance“.

You can now start testing.

4 Testing with the AT 3-med

All tests that can be performed with your SECUTEST appliance tester on equipment with safety plugs can now also be carried out on equipment with CEE plugs. Proceed as described in the operating instructions for the SECUTEST appliance tester.

Note the following special features of the adapter:

- ➪ When testing the resistance of the protective conductor the value of the measured resistance of the protective conductor increases by the portion which is caused by the protective conductor system of the CEE adapter itself. In case of doubt, with measuring results close to the permissible limits, measure the resistance of the protective conductor at the PE connector of the CEE outlet and deduct this values from the measured value of the system device under test – adapter.
- ➪ When performing an insulation test, the three phase connections L1, L2, L3 and N of the device under test are shorted in the adapter before the test is performed.
- ➪ It is absolutely required to place the device under test to an insulated position when performing a test of the earth leakage current as otherwise the measurement of the earth leakage current will be falsified. When testing the earth leakage current the device under test is connected to a feeding three-phase system via the CEE adapter. This condition is indicated by an orange-coloured signal lamp marked „line active“.

Caution!
As soon as this orange-coloured signal lamp on the CEE adapter lights, the connectors of the feeding line outlet are connected to the test outlet of the CEE adapter without fuse or other protecting elements. Only three-phase equipment with a power consumption of max. 3 x 16 A for 6 h may be connected to this outlet.

Caution!
A short-circuit of two phases or of all three phases in the device under test can not be dedected by the SECUTEST appliance tester before testing the earth leakage current. In such case the CEE adapter can seriously be damaged when performing this test due to the occuring shock current. Before connecting a device under test to the CEE adapter assure by testing e.g. with a continuity tester that there is no short-circuit between the phases of the device under test!

Caution!
After a repair of three-phase equipment or when initially connecting the CEE plug to such equipment particularly note that the phases are correctly installed.

5 Technical data

Electrical safety	
Protection class	I according to IEC 61010-1/EN 61010-1/ VDE 0411-1
Operating voltage	300 V
Test voltage	1.35 kV
Current load capacity	16 A / 6 h three-phase current
Adapter power consumption with „line active“	7 VA, cos φ ≈ 0.4
Overvoltage category	II
Pollution degree	2
Mechanical construction	
Protection class	Case IP40, sockets IP20
Dimensions	125 mm x 250 mm x 90 mm (L x W x H)
Weight	1.5 kg

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