GOSSEN METRAWATT

AT3-II S32

3-Phase 16/32 A Current Adapter with Residual Current Logging

3-349-480-03
3/2.18

DIN VDE tests without mains operation

- Protective conductor resistance
- Insulation resistance
- Equivalent leakage current

DIN VDE tests with mains operation

- Differential current
  (not SECUTEST BASE(10), SECUTEST S2N+w)
- Touch current
- Protective conductor current (not SECUTEST S2N+/S2N+10)

Equipment

- 5-pin CEE 32 A (max. 40 A) and CEE 16 A
- Single-phase earthing contact outlet

Applications

With the AT3-II S32 CEE adapter, devices which are equipped with 16A/6h or 32A/6h 5-pin CEE plugs can be quickly and efficiently connected to test instruments designed for testing portable devices in accordance with DIN VDE 0701-0702, or for testing in accordance with DIN VDE 0750 (IEC 62353) and IEC 60601, and which are furnished with an earthing contact outlet only.

The following tests can be performed on devices with CEE plugs with the help of the AT3-II S32 adapter:

- Testing of protective conductor continuity
- Insulation test
- Equivalent leakage current measurement
- Differential current measurement, L1-L2-L3-N
- Measurement of protective conductor resistance
- Function test

Use with SECUTEST... / SECULIFE... Instruments

The AT3-II S32 is designed for connection to the following test instruments: SECUTEST BASE(10)/PRO, SECULIFE ST BASE(25), SECUTEST S2N+, SECUTEST S2N+10, SECUTEST S2N+w, SECUTEST®SII (with feature F01) or SECUTEST SII+ and SECUTEST®SIII or SECUTEST SIII+.
The AT3-II S32 allows for fully automated or manual testing in accordance with the menu-drive test sequences included with these test instruments, with transmission of test results to, and analysis at, SECUTEST test instruments.

Measurement of protective conductor resistance is only possible with the SECUTEST S2N+w and the SECUTEST SIII+ which include the IEC 60601 option.

Applicable Regulations and Standards

IEC 61010-031 **DIN EN 61010-031** **VDE 0411-031**	Safety requirements for electrical equipment for measurement, control and laboratory use – Part 031: Safety requirements for hand-held probe assemblies for electrical measurement and test
EN 60529 **VDE 0470-1**	Test instruments and test procedures Degrees of protection provided by enclosures (IP code)
DIN EN 61326-1 **VDE 0843-20-1**	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General requirements

Regulations and Standards for the Use of Safety Testers

DIN VDE 0701-0702	Recurrent test and test after repair and modification of electrical equipment – General requirements for electrical safety
DIN VDE 0751	Repair, modification and testing of electrical medical devices – General requirements
DGUV provision 3 **(previously BGV A3)**	Provision 3 of the Deutsche Gesetzliche Unfallversicherung *(German Statutory Accident Insurance)* – Accident Prevention Regulation „Electrical systems and equipment“

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Characteristic Values

Indicator

The orange lamp on the AT3-II S32 indicates that the terminals at the mains outlet from which power is supplied are connected to the test/mains outlet or coupling at the AT3-II S32 adapter without the use of a fuse or any other protective devices.

Reference Conditions

Ambient temperature	+23° C ±2 K
Relative humidity	40 to 60%
Line voltage	230 V ±1%
Measured quantity frequency	50 Hz ±0.2%
Measured quantity waveform	Sine (deviation between effective and rectified value: ±0.5%)

Ambient Conditions

Operating temperature	0 to + 40 °C
Storage temperature range	–20 to + 70 °C
Humidity	Max. 75%, no condensation allowed
Elevation	To 2000 m

Electrical Safety

Protection class	I per IEC 61010-031/DIN EN 61010-031/ VDE 0411-031
Operating voltage	300 V
Test voltage	2.2 kV
Current-carrying capacity	3-phase 32 A 40 A (AC-1) KB 10 min.
Intrinsic connected load, “mains active”	10 VA, cos φ ~ 0.4
Measuring category	II
Pollution degree	2

Electromagnetic Compatibility (EMC)

Interference emission	EN 61326-1:2013, class B
Interference immunity	EN 61326-1:2013

Differential Current

Measuring range	0.08 to 10.0 mA AC
Inherent error	4% rdg. ±40 µA
Measuring error	6% rdg. ±60 µA

Mechanical Design

Protection	Housing: IP 40, connections: IP 20

Table Excerpt Regarding Significance of IP Codes

IP XY (1st digit X)	Protection Against Foreign Object Entry	IP XY (2nd digit Y)	Protection Against Penetration by Water
2	≥ 12.5 mm dia.	0	Not protected
4	≥ 1.0 mm dia.	0	Not protected

Dimensions	L x W x H: 285 x 220 x 128 mm (without cables and grommets)
Weight	4.15 kg

Order Information

Description	Type	Article number
Safety tester	AT3-II S32	Z745X

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