

## V-Networks ESH2-Z5, ESH3-Z5, ESH3-Z6

### Interference measurements on

### AC-powered loads

### Models -Z5 for remote-control

### via R&S EMI test receivers

### Insertion loss calibrated to ANSI

### C63.4

#### Main features

- AC voltage supply to EUT
- Isolation of test circuit from line interference
- Standardized load impedance
- Defined feed of interference voltage produced by EUT to EMI test receiver

#### Brief description of ESH2-Z5

Four-line V-network ( $50 \mu\text{H} + 5 \Omega$ ) shunted by  $50 \Omega$  in line with VDE0876 and CISPR 16-1. It uses air-core induct-

ances and contains an artificial hand as well as a PE simulating network that can be bypassed. A built-in fan with its own



ESH2-Z5 (photo 35326)

AC supply provides automatically controlled or permanent cooling, as required.

#### Brief description of ESH3-Z5

Two-line V-network ( $50 \mu\text{H} + 5 \Omega$ ) shunted by  $50 \Omega$  in line with VDE0876 and CISPR 16-1. It uses air-core inductances and contains an artificial hand as well as a PE simulating network that can be bypassed. The compact design and

low weight make the ESH 3-Z5 an ideal choice for frequently varying applications.



ESH3-Z5 (photo 35760)

#### Brief description of ESH3-Z6

ESH3-Z6 is a single-phase V-network ( $5 \mu\text{H} + 1 \Omega$ ) shunted by  $50 \Omega$  complying with the requirements of VDE 0876 Part 1 (onboard power supply systems), CISPR Publ. 16 (low-impedance power supplies) as well as MIL-STD-462 Notice 3, MIL-I-6181D, MIL-I-16910C, MIL-E-55301, DEF-STAN 59-41 and DO 160 in the frequency range 100 kHz to 200 MHz.



ESH3-Z6 (photo 35913)

#### Specifications in brief

Frequency range  
 Impedance accuracy  
 Continuous current  
 Max. short-time current  
 Max. AC supply voltage  
 Max. AC supply frequency  
 AC supply input connector

AC supply connector for EUT

RF output to test receiver  
 Remote-control input from test receiver  
 Input for artificial hand  
 Dimensions (H x B x T)  
 Weight

##### ESH2-Z5

9 kHz to 30 MHz  
 $\pm 20\%$   
 4 x 25 A  
 4 x 50 A (2 min)  
 250 V rms  
 63 Hz  
 4 x 32 A (Cekon male)  
 European male for fan  
 4 x 32 A (Cekon female)  
 2 x 16 A (earthing-contact type female)  
 BNC female  
 50-contact Amphenol female  
 two 4 mm jacks  
 492 mm x 294 mm x 603 mm  
 26 kg

##### ESH3-Z5

9 kHz to 30 MHz  
 $\pm 20\%$   
 2 x 10 A  
 2 x 16 A (30 min)  
 250 V rms  
 63 Hz  
 earthing-contact type male with 1.8-m cable  
 earthing-contact type female  
 BNC female  
 9-contact Cannon female  
 4 mm jack  
 219 mm x 147 mm x 350 mm  
 5.5 kg

##### ESH3-Z6

0.1 MHz to 200 MHz  
 $\pm 20\%$   
 100 A ( $150 \text{ A to } T_{\text{amb}} = 35^\circ\text{C}$ )  
 500 A (30 s)  
 250 V rms; 600 V DC  
 440 Hz  
 screw terminal M8  
 screw terminal M8, reference ground to metallic ground plate  
 N male  
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 —  
 122 mm x 128 mm x 322 mm  
 1.9 kg

#### Ordering information

##### V-Network

Control cable to test receiver

0338.5219.53  
 EZ-5, 0816.0625.02

0831.5518.52  
 EZ-4, 0816.0560.02 (3 m) or  
 EZ-6, 0816.0683.02 (10 m)

0836.5016.52  
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