

# Electromagnetic protected steel enclosures

## Introduction

PB50205-46



EMC box, IP55.

### Spacial S3HF wall-mounting enclosure IP55 IK10

From H 400 x W 300 x D 200 to H 1200 x W 800 x D 300 mm

- Metal monobloc enclosures constructed from special ALU-ZINC 150 sheet. Body constructed from single folded and welded sheet.
- The enclosure surface, comprising 55 % aluminium ensures good reflection of radiated electromagnetic interference.
- Textured epoxy polyester external paint finish, colour grey RAL 7035.
- Integral, galvanised, sheet steel, plain chassis (reference potential plate). The low resistivity of this plate facilitates earth continuity. Special body/door gasket (IP + EMC) providing both environment protection and continuity between the door and body of the enclosure. Body completely sealed, without any cable entries or apertures. Integral earth braid between enclosure body and door, ensuring good earthing and, in consequence, good electromagnetic compatibility. Metal closing points with earth continuity, thus improving overall screening.

PB501663-46



EMC enclosure, IP55.

### Spacial SMHF floor-standing enclosure IP55 IK10

From H 1800 x W 600 x D 600 to H 2000 x W 800 x D 600 mm

- Metal monobloc enclosure constructed from special ALU-ZINC 150 sheet. The enclosure surface, comprising 55 % aluminium ensures good reflection of radiated electromagnetic interference.
- Exterior painted with an epoxy polyester external powder paint finish, colour grey RAL 7035.
- Integral galvanised sheet steel plain chassis (sheet potential reference). The earth continuity is much easier thanks to its weak resistance.
- Special body-door seal (IP + EMC), providing not only water tightness, but also electrical continuity between the door and the body, necessary for those assemblies. Cable gland plate with special built-in seal (IP + EMC).

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EMC floor-standing enclosure, IP55.

### Spacial SFHF suitable enclosure IP55 IK10

From H 1800 x W 600 x D 600 to H 2200 x W 800 x D 800 mm

- Metal, extendable enclosure constructed thanks to a closed triangular profile, door and panel from special ALU-ZINC 150 sheet. The enclosure surface, comprising 55 % aluminium ensures good reflection of radiated electromagnetic interference.
- Exterior painted with an epoxy polyester external powder paint finish, colour grey RAL 7035.
- Integral galvanised sheet steel plain chassis (sheet potential reference). The earth continuity is much easier thanks to its weak resistance.
- Special body/door gasket (IP + EMC) providing both environmental protection and electrical continuity between the door and body of the enclosure.
- Integral earth braid between enclosure body and door, ensuring good earthing and, in consequence, good electromagnetic compatibility.
- The suite joining set is also available for the EMC enclosures, IP55.

**This range can be configured according to your needs**

4 different services available:



Assemble to order



Mounting of standard accessories



Painting

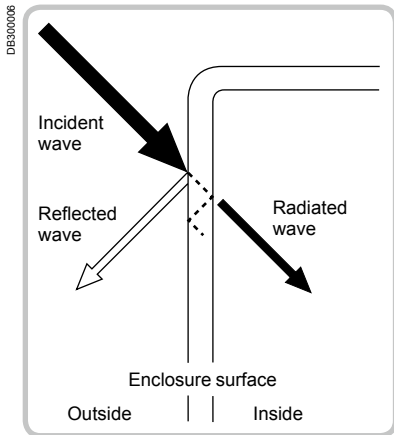


Machining

See page 482 for details or consult our web site [www.schneider-electric.com](http://www.schneider-electric.com)

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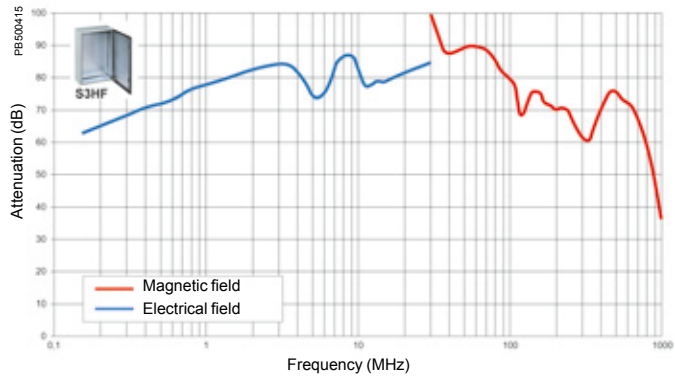


The presence of 55 % aluminium on the surface of the sheet metal ensures good reflection of electromagnetic waves.

The next illustrations indicates the attenuation (dB) curves related to the frequency (MHz).

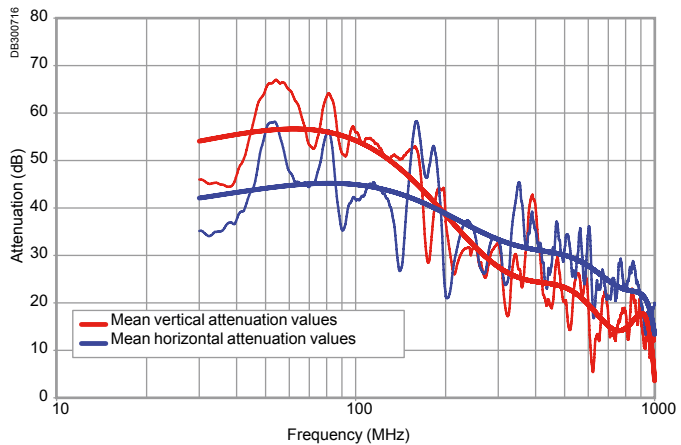
### Attenuation of the Spacial S3HF enclosure

General information on Electromagnetic Compatibility, see pages 422 and 423.



### Floor-standing compact enclosure

The enclosure is tested with earth braids mounted on all claddings (test performed following IEC 61587-3).



### Floor-standing suitable enclosure

Enclosure is tested with its sides panels and earth braids mounted on all claddings (Test performed following IEC 61587-3).

