

CERTIFICATE

KEMA No.: 2102020.03



Issued to:

Applicant:

ABB B.V.

Division AT

Frankeneng 15

6716 AA, EDE, The Netherlands

Manufacturer/Licensee:

ABB B.V.

Division AT

Frankeneng 15

6716 AA, EDE, The Netherlands

Product(s) : surge protective device boxes

Trade name(s) : ABB

Type(s)/model(s) : HAFONORM

The product and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

KEMA hereby declares that the above-mentioned product has been certified on the basis of:

- a type test according to the standard EN 60439-3:1991
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 900017

KEMA hereby grants the right to use the KEMA-KEUR certification mark.

The KEMA-KEUR certification mark may be applied to the product as specified in this certificate for the duration of the KEMA-KEUR certification agreement and under the conditions of the KEMA-KEUR certification agreement.

This certificate is issued on: February 1, 2007 and expires upon withdrawal of one of the above mentioned standards.

KEMA Quality B.V.



P. Nabuurs
Managing director



F.S. Strikwerda
Certification Manager

ACCREDITED BY
THE DUTCH COUNCIL
FOR ACCREDITATION



© Integral publication of this certificate is allowed

SPECIFICATION OF THE CERTIFIED PRODUCT**Product data**

Product : surge protective device boxes
trade name(s) : ABB
type(s) : HAFONORM
rated voltage : 230/400 Vac
rated frequency : 50 Hz
degree of protection : IP2XC
description : boards of black thermoplastic material

Additional information

List of type numbers:

HOSB-2
HOSBV-2
HSOB-4
HSOBV-4
HSOB-2+HS
HSOB-4+HS

TESTS**Test requirements**

EN 60439-3:1991 A1:1994 + A2:2001

Test result

The test results are laid down in KEMA test file 2102020.03.

Remarks

This certificate replaces certificate 2079242.03.

Conclusion

The examination proved that all test requirements were met.

Tested by : M.T.H. van Gemen Checked by : H.L. Schendstok **Factory-Locations**

ABB B.V., Division AT
Frankeneng 15, 6716 AA EDE, The Netherlands

List of components

component	trade name	type/model	approval mark ¹⁾
surge arrester	ABB HAF	OSB-2	KEMA-KEUR
surge arrester	ABB HAF	OSB-4	KEMA-KEUR
switch	ABB HAF	0903-041	KEMA-KEUR
switch	ABB HAF	E272 (0903-047)	KEMA-KEUR
switch	ABB-HAF	0903-042	KEMA-KEUR
wiring	-	H07V2-K (90 °C) 6 mm ²	KEMA-KEUR or HAR

¹⁾ * indicates a component tested as part of the appliance