

CERTIFICATE

KEMA No.: 2079242.04



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) : fuse boxes
Trade name(s) : ABB HAF
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 standards EN 60439-1:1999, 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 28, 2006 and expires upon withdrawal of one of the above mentioned standards.

KEMA Quality B.V.

P. Nabuurs
Managing director

H.H.M. Versteegen
Certification Manager

ACCREDITED BY
THE DUTCH COUNCIL
FOR ACCREDITATION



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SPECIFICATION OF THE CERTIFIED PRODUCT**Product data**

Product	:	fuse boxes
trade name(s)	:	ABB HAF
type(s)	:	HRZ 12, HRZ 3, HRZ 6, HRZ 9, HSG 03-63, HSZ 3, HSZ 363, HSG 03-160
rated voltage	:	230/400 Vac
rated frequency	:	50 Hz
degree of protection	:	IP2XC
description	:	boards of black thermoplastic material

Product data – type HRZ 12

rated voltage	:	400 V
rated current	:	25 A

Product data – type HRZ 3

rated voltage	:	400 V
rated current	:	25 A

Product data – type HRZ 6

rated voltage	:	400 V
rated current	:	25 A

Product data – type HRZ 9

rated voltage	:	400 V
rated current	:	25 A

Product data – type HSG 03-63

rated voltage	:	400 V
rated current	:	35 A (63 A with D-type fuse-links $\leq 6,5$ W)

Product data – type HSZ 3

rated voltage	:	400 V
rated current	:	25 A

Product data – type HSZ 363

rated voltage	:	400 V
rated current	:	50 A (63 A with D-type fuse-links $\leq 6,5$ W)

Product data – type HSG 03-160

rated voltage	:	400 V
rated current	:	160 A

TESTS

Test requirements

EN 60439-1:1999 A1: 2004

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

Test result

The test results are laid down in KEMA test file 2079242.04.

Remarks

This certificate replaces certificate 96.2905.06 dated June 10, 1997 and certificate 96.2905.09 dated November 12, 1998.

Conclusion

The examination proved that all test requirements were met.

Tested by : H.L. Schendstok

Checked by : H.H.M. Versteegen



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⁾
D-type fuse holder	ABB HAF	025	KEMA-KEUR
D-type fuse holder	ABB HAF	225/.	KEMA-KEUR
D-type fuse holder	ABB HAF	163/.	KEMA-KEUR
fuse holder	Jean Müller	U00-1 IG	KEMA-KEUR

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