



CB TEST CERTIFICATE

Ref. Certificate No.

BE-2936

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

Issued by:	SGS Belgium NV - Division SGS CEBEC		
Product:	Motor starters		
Applicant:	ABB Stotz-Kontakt GmbH	Eppelheimer Strasse, 82 PO Box 101680 69123 HEIDELBERG	Germany
Manufacturer:	ABB Stotz-Kontakt GmbH	Eppelheimer Strasse, 82 PO Box 101680 69123 HEIDELBERG	Germany
Factory:	ABB Stotz-Kontakt GmbH	Eppelheimer Strasse, 82 PO Box 101680 69123 HEIDELBERG	Germany
Rating and principal characteristics:	See page 2		
Trade mark (if any):	ABB		
Type of Manufacturer's Testing Laboratories used:	WMT		
Model/Type reference:	MS116		
Additional information:	/		
Sample of product tested to be in conformity with IEC:	60947-4-1(ed.2);am1;am2		Comments: Annex Q of the IEC 60947-1:2007 / Edition 5 has been performed additionally.
Test Report Ref. No:	58495803/00 up to 58495803/15		

This CB Test Certificate is issued by the National Certification Body:

SGS Belgium NV - Division SGS CEBEC
Riverside Business Park Avenue Internationalelaan 55 Build. D B - 1070 Brussels,
Belgium

Signed by: Calogero LANA

Date of issue: 2011-05-20

SGS



Ratings:

number of poles	:	3
rated operational voltage (Ue)	:	230 V - 690 V
rated operational current	:	0,1 A - 32 A
nature of supply	:	AC
rated frequency	:	50 / 60 Hz
utilization category	:	AC-3
conventional free air thermal current (Ith)	:	32 A
rated duty	:	uninterrupted duty
rated prospective short-circuit current "r"	:	1 kA / 3 kA
rated conditional short-circuit current (Iq)	:	10kA - 50 kA 400 V
	:	2 kA - 30 kA 690 V
SCPD	:	Self protected, co-ordination type 2
rated insulation voltage (Ui)	:	690 V
rated impulse withstand voltage (Uimp)	:	6 kV
pollution degree	:	3
degree of protection	:	IP 20
suitability for isolation	:	Yes
method of operation	:	Manual
method of mounting	:	din rail type
type of terminals	:	screw type
temperature limit (t max)	:	-25°C up to +60°C
other characteristics	:	Trip class 10

Further Data:

As the device is self protected (Type 2) no external protective device needed
The product also meets the requirements acc. to IEC60947-2

Additionally the Damp heat test acc. to GB/T2423.4-1993 has been performed

Product References:

Type designation	Current range
MS116/0,16	0,10-0,16A
MS116/0,25	0,16-0,25A
MS116/0,4	0,25-0,4A
MS116/0,63	0,4-0,63A
MS116/1,0	0,63-1,0A
MS116/1,6	1,0-1,6A
MS116/2,5	1,6-2,5A
MS116/4	2,5-4,0A
MS116/6,3	4,0-6,3A
MS116/10	6,3-10A
MS116/12	8-12A
MS116/16	10-16A
MS116/20	16-20A
MS116/25	20-25A
MS116/32	25-32A



CB TEST CERTIFICATE

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BE-2937

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

Issued by:	SGS Belgium NV - Division SGS CEBEC		
Product:	Motor starters		
Applicant:	ABB Stotz-Kontakt GmbH	Eppelheimer Strasse, 82 PO Box 101680 69123 HEIDELBERG	Germany
Manufacturer:	ABB Stotz-Kontakt GmbH	Eppelheimer Strasse, 82 PO Box 101680 69123 HEIDELBERG	Germany
Factory:	ABB Stotz-Kontakt GmbH	Eppelheimer Strasse, 82 PO Box 101680 69123 HEIDELBERG	Germany
Rating and principal characteristics:	See page 2		
Trade mark (if any):	ABB		
Type of Manufacturer's Testing Laboratories used:	WMT		
Model/Type reference:	MS116		
Additional information:	/		
Sample of product tested to be in conformity with IEC:	60947-2(ed.4)	Comments: Annex Q of the IEC60947-1:2007 / Edition 5 has been performed additionally.	
Test Report Ref. No:	58495804/00 up to 58495804/14		

This CB Test Certificate is issued by the National Certification Body:

SGS Belgium NV - Division SGS CEBEC
Riverside Business Park Avenue Internationalelaan 55 Build. D B - 1070 Brussels,
Belgium

Signed by: Calogero LANA

Date of issue: 2011-05-20



Ratings:

number of poles	:	3
rated operational voltage (Ue)	:	230 V - 690 V
rated operational current	:	0,1 A - 32 A
nature of supply	:	AC
rated frequency	:	50 / 60 Hz
utilization category	:	A
conventional free air thermal current (Ith)	:	32 A
rated duty	:	uninterrupted duty
rated short-circuit capacity (Icu)	:	see table below
rated service short-circuit current (Ics)	:	see table below
rated insulation voltage (Ui)	:	690 V
rated impulse withstand voltage (Uimp)	:	6 kV
pollution degree	:	3
degree of protection	:	IP 20
suitability for isolation	:	Yes
method of operation	:	independant manual operation
method of mounting	:	din rail type
type of terminals	:	screw type
temperature limit (t max)	:	-25°C up to +60°C
distance metal screen to terminals	:	75 mm

Short circuit ratings

MS116	230V		400V		440V		500V		690V	
Setting range	Ics	Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics	Icu
0,1-0,16 A	50kA	50kA	50kA	50kA	50 kA		30 kA		30 kA	
0,16-0,25 A										
0,25-0,4 A										
0,4-0,63 A					10 kA		10 kA		5 kA	
0,63-1,0 A										
1,0-1,6 A										
1,6-2,5 A					6 kA		6 kA		2 kA	
2,5-4,0 A										
4,0-6,3 A										
6,3-10,0 A										
8,0-12 A	25 kA		25 kA		4 kA		4 kA			
10-16 A	16 kA		16 kA							
16-20 A	10 kA	15 kA	10 kA	15 kA						
20-25 A					3 kA	6 kA	3 kA	4 kA	2 kA	3 kA
25-32 A	10 kA		10 kA							

Further Data:

The product also meets the requirements acc. to IEC60947-4-1
 Additionally the Damp heat test acc. to GB/T2423.4-1993 has been performed

Product References:

Type designation	Current range	Instantaneous tripping range
MS116/0,16	0,10-0,16A	1,25 – 1,87A
MS116/0,25	0,16-0,25A	1,95 – 2,93A
MS116/0,4	0,25-0,4A	3,12 – 4,68A
MS116/0,63	0,4-0,63A	4,91 – 7,37A
MS116/1,0	0,63-1,0A	9,20 – 13,80A
MS116/1,6	1,0-1,6A	14,72 – 22,08A
MS116/2,5	1,6-2,5A	23,0 – 34,5A
MS116/4	2,5-4,0A	40,0 – 60,0A
MS116/6,3	4,0-6,3A	63,0 – 94,5A
MS116/10	6,3-10A	120,0 – 180,0A
MS116/12	8-12A	144,0 – 216,0A
MS116/16	10-16A	192,0 – 288,0A
MS116/20	16-20A	240,0 – 360,0A
MS116/25	20-25A	300,0 – 450,0A
MS116/32	25-32A	384,0 – 576,0A



Ref. Certif. No.

CN32892

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST
CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE)
CB SCHEME

SYSTEME CEI D'ACCEPTATION MUTUELLE DE
CERTIFICATS D'ESSAIS DES EQUIPEMENTS
ELECTRIQUES (IECEE) METHODE OC

CB TEST CERTIFICATE

Product
Produit

Motor Protection Circuit-breaker

Name and address of the applicant
Nom et adresse du demandeur

ABB STOTZ-KONTAKT GmbH
Eppelheimer Strasse 82 69123 Heidelberg, Germany

Name and address of the manufacturer
Nom et adresse du fabricant

ABB STOTZ-KONTAKT GmbH
Eppelheimer Strasse 82 69123 Heidelberg, Germany

Name and address of the factory
Nome et adresse de l'usine

Note: When more than one factory, please report on page 2
Note: Lorsqu'il y a plus d'une usine, veuillez utiliser la 2^{ème} page

ABB Xinhui Low Voltage Switchgear Co., Ltd.
Jinguzhou Industrial Development Zone, Xinhui Region, Jiangmen
City, Guangdong Province, P.R.China

Ratings and principal characteristics
Valeurs nominales et caractéristiques principales

See the Appendix

Trademark (if any)
Marque de fabrique (si elle existe)

ABB

Model / Type Ref.
Ref. De type

MS116

Additional information (if necessary may also be reported
on page 2)
Les informations complémentaires (si nécessaire, peuvent être
indiqués sur la 2^{ème} page)

A sample of the product was tested and found
to be in conformity with
Un échantillon de ce produit a été essayé et a été
considéré conforme à la

As shown in the Test Report Ref. No. which forms part
of this Certificate
Comme indiqué dans le Rapport d'essais numéro de
référence qui constitue partie de ce Certificat

This CB Test Certificate is issued by the National Certification Body
Ce Certificat d'essai OC est établi par l'Organisme **National de Certification**

PUBLICATION

EDITION

IEC 60947-2:2006(4th Edition)+Amendment
1:2009+Amendment 2:2013, IEC 60947-4-1:2009(3rd
Edition)

00901-CB2014CQC-063110-1, 00901-CB2014CQC-
063110-2



CHINA QUALITY CERTIFICATION CENTRE

Date: 2015-01-09

Signature:

Wang Kejiao

Issued 2003-05
China Quality Certification Centre
Section 9, No. 188, Nansihuan Xilu, Beijing 100070 P.R.China

Tel: +86-10-83886666
Fax: +86-10-83886282

website
www.cqc.com.cn

CB 0028369



Ref. Certif. No.

CN32892

MS116

Ui: 690V;

Ue: AC230/400/440/500/690V;

In: 0,1-0,16A, 0,16-0,25A, 0,25-0,4A, 0,4-0,63A, 0,63-1,0A, 1,0-1,6A, 1,6-2,5A, 2,5-4,0A, 4,0-6,3A, 6,3-10A, 8-12A, 10-16A, 16-20A, 20-25A, 25-32A;

AC230/400V:

Ics=Icu=50kA(0,1-0,16A, 0,16-0,25A, 0,25-0,4A, 0,4-0,63A, 0,63-1,0A, 1,0-1,6A, 1,6-2,5A, 2,5-4,0A, 4,0-6,3A, 6,3-10A),

Ics=Icu=25kA(8-12A),

Ics=Icu=16kA(10-16A),

Ics=10kA(16-20A, 20-25A), Icu=15kA(16-20A, 20-25A),

Ics=Icu=10kA(25-32A);

AC440V:

Ics=Icu=50kA(0,1-0,16A, 0,16-0,25A, 0,25-0,4A, 0,4-0,63A, 0,63-1,0A, 1,0-1,6A),

Ics=Icu=10kA(1,6-2,5A),

Ics=Icu=6kA(2,5-4,0A, 4,0-6,3A, 6,3-10A, 8-12A),

Ics=Icu=4kA(10-16A),

Ics=3kA(16-20A, 20-25A, 25-32A), Icu=6kA(16-20A, 20-25A, 25-32A);

AC500V:

Ics=Icu=30kA(0,1-0,16A, 0,16-0,25A, 0,25-0,4A, 0,4-0,63A, 0,63-1,0A, 1,0-1,6A),

Ics=Icu=10kA(1,6-2,5A),

Ics=Icu=6kA(2,5-4,0A, 4,0-6,3A, 6,3-10A, 8-12A),

Ics=Icu=4kA(10-16A),

Ics=3kA(16-20A, 20-25A, 25-32A), Icu=4kA(16-20A, 20-25A, 25-32A);

AC690V:

Ics=Icu=30kA(0,1-0,16A, 0,16-0,25A, 0,25-0,4A, 0,4-0,63A, 0,63-1,0A, 1,0-1,6A),

Ics=Icu=5kA(1,6-2,5A),

Ics=Icu=2kA(2,5-4,0A, 4,0-6,3A, 6,3-10A, 8-12A, 10-16A),

Ics=2kA(16-20A, 20-25A, 25-32A), Icu=3kA(16-20A, 20-25A, 25-32A);

Over current release type: Thermal magnetic;

Selectivity category: A;

Tripping Class: 10;

3P

Additional information (if necessary)

Information complémentaire (si nécessaire)

Date: 2015-01-09

Signature:

Wang Kejiao