



CB TEST CERTIFICATE

Ref. Certificate No.

NL-9848/M2

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

Issued by: KEMA Quality B.V.

Product: MAGNETIC CONTACTOR WITH THERMAL OVERLOAD RELAY AND ACCESSORIES

Applicant: LS Industrial Systems Co., Ltd. 1026-6, HoGye-Dong, DongAn-Gu, AnYang-Si, GyeongGi-Do Korea, Republic of

Manufacturer: LS Industrial Systems Co., Ltd. 1026-6, HoGye-Dong, DongAn-Gu, AnYang-Si, GyeongGi-Do Korea, Republic of

Factory: LS Industrial Systems Co., Ltd. CheongJu Plant 1, Songjeong-Dong, HeungDeok-Gu Cheongju-si, ChungCheongbuk-do Korea, Republic of

Rating and principal characteristics: General product details:
Ue/Ui :
- 1000 V (for contactors and auxiliaries)
- 690 V (for thermal overload relays)
Uimp:
- 8 kV (contactors and auxiliaries)
- 6 kV (overload relays) - See Annex for detailed product specifications.

Trade mark (if any): LS

Model/Type reference: MC-9, -12, -18, -25, -32, -32a, -35, -40, -50, -50a, -63, -65, -75, -75a, -85, -85a, -95 / MT-32, -63, -95 versions /2H, /3H, /3K, /3D (TOR) / UA-1 (auxiliary contact) / UR-02 (Interlock unit)

Additional information: Re-issued due to addition of Models MC-32a, MC-50a, MC-75a and MC-85a (markings only changed) and address change, original CB dated 2005-11-14

Sample of product tested to be in conformity with IEC: 60947-4-1(ed.2);am1
60947-5-1(ed.2);am1;am2

Test Report Ref. No: 2084466.50-57 dated November 2005

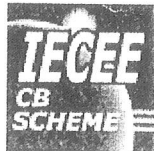
This CB Test Certificate is issued by the National Certification Body:

KEMA Quality B.V.
Utrechtseweg 310
P.O. Box 5185
6802 ED Arnhem
The Netherlands



Signed by: F.S.Strikwerda

Date of issue: 2008-12-17



CB TEST CERTIFICATE

Ref. Certificate No.

NL-13534

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

Issued by: KEMA Quality B.V.

Product: MAGNETIC CONTACTOR WITH THERMAL OVERLOAD RELAY

Applicant: LS INDUSTRIAL SYSTEMS CO., LTD. 84-11, Namdaemunno5 (o)-ga, Jung-gu, Seoul Korea, Republic of

Manufacturer: LS INDUSTRIAL SYSTEMS CO., LTD. 84-11, Namdaemunno5 (o)-ga, Jung-gu, Seoul Korea, Republic of

Factory: LS INDUSTRIAL SYSTEMS CO., LTD. CheongJu Plant 1, Songjeong-dong Heungdeok-gu Cheongju-si Chungchengbuk-do Korea, Republic of

Rating and principal characteristics: General product details:
Ue/Ui :
- 690 V Uimp:
- 6 kV
See Annex for detailed product specifications.

Trade mark (if any): LS

Model/Type reference: MC-9a, MC-12a, MT-12

Additional information: -

Sample of product tested to be in conformity with IEC: 60947-4-1(ed.2);am1
60947-5-1(ed.2);am1;am2

Test Report Ref. No: 2108402.50

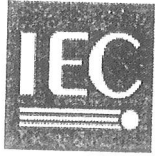
This CB Test Certificate is issued by the National Certification Body:

KEMA Quality B.V.
Utrechtseweg 310
P.O. Box 5185
6802 ED Arnhem
The Netherlands



Signed by: F.S.Strikwerda

Date of issue: 2007-11-05



CB TEST CERTIFICATE

Ref. Certificate No.

NL-14734

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

Issued by: KEMA Quality B.V.

Product: Magnetic Contactor and Thermal overload relay

Applicant: LS Industrial Systems Co. Ltd. 84-11, Namdaemunno5 (o)-ga, Jung-gu, Seoul Korea, Republic of

Manufacturer: LS Industrial Systems Co. Ltd. 84-11, Namdaemunno5 (o)-ga, Jung-gu, Seoul Korea, Republic of

Factory: LS Industrial Systems Co. Ltd. CheongJu Plant 1, Songjeong-dong, Heungdeok-gu Cheongju-si, Chungcheongbuk-do Korea, Republic of

Rating and principal characteristics: See Annex

Trade mark (if any): LS

Model/Type reference: MC-6a, MC-18a, MC-35a, MC-40a, MC-65a, MC-100a, MT-12/3D

Additional information: -

Sample of product tested to be in conformity with IEC: 60947-4-1(ed.2);am1;am2

Test Report Ref. No: 2113421.50-54 and 2084466.51/52 (nov 2005) and 2108402.50 (nov 2007)

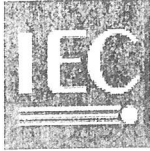
This CB Test Certificate is issued by the National Certification Body:

KEMA Quality B.V.
Utrechtseweg 310
P.O. Box 5185
6802 ED Arnhem
The Netherlands



Signed by: H.R.M. Barends

Date of issue: 2008-08-26



CB TEST CERTIFICATE

Ref. Certificate No.

NL-16667

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

Issued by: KEMA Quality B.V.

Product: Magnetic contactors and thermal overload relays and accessories

Applicant: LS Industrial Systems Co., Ltd. 1026-6, Hogyedong, Dong-an-gu Anyang-si, Gyeonggi-do Korea, Republic of

Manufacturer: LS Industrial Systems Co., Ltd. 1026-6, Hogyedong, Dong-an-gu Anyang-si, Gyeonggi-do Korea, Republic of

Factory: LS Industrial Systems Co., Ltd. Cheongju Plant 1, Songjeong-dong, Heungdeok-gu Cheongju-si, Chungcheongbuk-do Korea, Republic of

Rating and principal characteristics: Ue = up to 690 V, Ui = 1000 V, Uimp = 8 kV (MC)
Ue = up to 690 V, Ui = 690 V, Uimp = 6 kV (TOR)
Rated prospective short-circuit current "r" = 10 kA (MC-130, -150, -185, -225, -265), 18 kA (MC-330, -400, -500, -630), 30 kA (MC-800)
Number of poles = 3
Rated frequency = 50/60 Hz
Further ratings see Annex.

Trade mark (if any): LS

Type of Manufacturer's Testing Laboratories used: WMT

Model/Type reference: MC-130, -150, -185, -225, -265, -330, -400, -500, -630, -800 versions a, MT-150, -225, -400, -800 versions /2H, /3H, /3K, /3D (TOR)

Additional information: -

Sample of product tested to be in conformity with IEC: 60947-4-1(ed.2);am1;am2

Test Report Ref. No: 2123631.50 up to -.56, and reports nr. 2077896.52, -53, -54, -55 dated September 2005

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

KEMA Quality B.V.
Utrechtseweg 310
P.O. Box 5185
6802 ED Arnhem
The Netherlands



Signed by: F.S.Strikwerda

Date of issue: 2009-08-20



Ref. Certif. No.

DK-15348

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST
CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE)
CB SCHEMESYSTEME CEI D'ACCEPTATION MUTUELLE DE CERTIFICATS
D'ESSAIS DES EQUIPEMENTS ELECTRIQUES (IECEE)
METHODE OCCB TEST CERTIFICATE
CERTIFICAT D'ESSAI OCProduct
Produit**Magnetic Contactor(Reversing Magnetic contactor)**Name and address of the applicant
Nom et adresse du demandeur**LS Industrial Systems Co., Ltd.
#1026-6, Hogye-dong, Anyang-si, Dongan-gu, Gyeonggi-do,
431-848, Korea**Name and address of the manufacturer
Nom et adresse du fabricant**LS Industrial Systems Co., Ltd.
#1, Song Jung-Dong, Hung Duk-Ku, Cheong Ju-Shi,
Chung Cheong Buk-Do, 361-720, Korea**Name and address of the factory
Nom et adresse de l'usine**LS Industrial Systems Co., Ltd.
#1, Song Jung-Dong, Hung Duk-Ku, Cheong Ju-Shi,
Chung Cheong Buk-Do, 361-720, Korea**Note: When more than one factory, please report on page 2
Note: Lorsque il y a plus d'une usine, veuillez utiliser la 2^{me} pageRatings and principal characteristics
Valeurs nominales et caractéristiques principales**See appendix**Trademark (if any)
Marque de fabrique (si elle existe)**LS**Model / Type Ref.
Ref. De type**MC-6b, MC-9b, MC-12b, MC-18b, MC-22b
MC-6b/R, MC-9b/R, MC-12b/R, MC-18b/R, MC-22b/R**Additional information (if necessary may also be reported
on page 2)
Les informations complémentaires (si nécessaire, peuvent
être indiqués sur la 2^{eme} page)**Testing done under the Witnessed Manufacturer's Premises
(WMT) procedure**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**PUBLICATION** IEC 60947-4-1:2000 + A1:2002 + A2: 2005 **EDITION** 2ndAs 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**08CA56358-20090219 issue date 2009-02-19**This CB Test Certificate is issued by the National Certification Body
Ce Certificat d'essai OC est établi par l'Organisme National de Certification**Underwriters
Laboratories****UL International Demko A/S**Lyskaer 8, P.O. Box 514, DK-2730 Herlev, Denmark
Tel: +45 44856565, Fax: +45 44856500

Date:

2009-03-13

Signature:

Jan-Erik Storgaard
Certification manager