

TEST CERTIFICATE

CERTIFICAT D'ESSAI OC

Product
Produit

Magnetic contactor

Name and adresse of the Applicant
Nom et adresse du demandeur

Hyundai Heavy Industries Co., Ltd.
#1, Jeonha-dong, Dong-gu, Ulsan-si, 682-792,
Korea, Republic of

Name and adresse of the manufacturer
Nom et adresse du fabricant

Hyundai Heavy Industries Co., Ltd.
#1, Jeonha-dong, Dong-gu, Ulsan-si, 682-792,
Korea, Republic of

Name and adresse of the factory
Nom et adresse de l'usine

Hyundai Heavy Industries Co., Ltd.
#1, Jeonha-dong, Dong-gu, Ulsan-si, 682-792,
Korea, Republic of

Rating and principal characteristics
Valeurs nominales et caractéristiques principales

3 poles AC 220 V / 440 V 40 A

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



Type of manufacturer's Testing Laboratories used
Type de programme de laboratoire d'essais constructeur

Model / Type Ref.
Ref. De type

UMC 40 + UAL65(Aux.)

Additional information (if necessary may also be reported on page 2)
Informations complémentaires (si nécessaire, peuvent être indiqués sur la
2ème page)

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

60947-4-1(ed.2);am1;am2

As show 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

2009TS01816

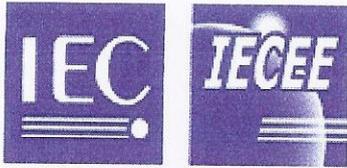
This CB Test Certificate is issued by the National Certification Body:

Ce Certificat d'essai OC est établi par l'Organisme National de Certification

Korea Electrotechnology Research Institute (KERI)
Sa-dong 1271-19, Sangnok-gu, Ansan-si, Gyeonggi-do, 426-170, Republic of Korea

Date: 2009-09-14

Signature: Mr. Ki-Taek Lee



Test Report issued under the responsibility of



TEST REPORT

IEC 60947-4-1

Low-voltage switchgear and controlgear

Part 4: Contactors and motor-starters

Section 1: Electromechanical contactors and motor-starters

Report Reference No. : 2009TS01816

Tested by (name+ signature)..... : AHN, Sang-Pil *Ahn Sang-Pil*

Witnessed by (name+ signature)..... : -

Supervised by (name+ signature)..... : -

Approved by (name+ signature)..... : PARK, Nam-Ok *Park Nam-Ok*

Date of issue : 2009-09-03

CB Testing laboratory : KERI-SEOUL

Address..... : #1271-19, Sa-dong, Sangnok-gu, Ansan-si, Gyeonggi-do,
426-170, Rep. of Korea

Testing location/ procedure..... : **CBTL** **RMT** **SMT** **WMT** **TMP**

Testing location/ address : **#1271-19, Sa-dong, Sangnok-gu, Ansan-si, Gyeonggi-do, 426-170, Rep. of KOREA**

Applicant's name : HYUNDAI HEAVY INDUSTRIES CO., LTD.

Address..... : #1, Jeonha-dong, Dong-gu, Ulsan-city, 682-792, Rep. of KOREA

Test specification..... :

Standard..... : IEC 60947-4-1:2000(2nd Ed.) + A1:2002+A2:2005
used in conjunction with IEC 60947-1:2004(4th Ed.)

Test procedure : CB

Non-standard test method : N/A

Test Report Form No. : IECEN60947_4_1B

Test Report Form(s) Originator..... : KEMA Quality B.V.

Master TRF : Dated 2006-06

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TEST CERTIFICATE

CERTIFICAT D'ESSAI OC

Product
Produit

Magnetic contactor

Name and adresse of the Applicant
Nom et adresse du demandeur

Hyundai Heavy Industries Co., Ltd.
#1, Jeonha-dong, Dong-gu, Ulsan-si, 682-792,
Korea, Republic of

Name and adresse of the manufacturer
Nom et adresse du fabricant

Hyundai Heavy Industries Co., Ltd.
#1, Jeonha-dong, Dong-gu, Ulsan-si, 682-792,
Korea, Republic of

Name and adresse of the factory
Nom et adresse de l'usine

Hyundai Heavy Industries Co., Ltd.
#1, Jeonha-dong, Dong-gu, Ulsan-si, 682-792,
Korea, Republic of

Rating and principal characteristics
Valeurs nominales et caractéristiques principales

3 poles AC 220 V / 440 V 50 A

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



Type of manufacturer's Testing Laboratories used
Type de programme de laboratoire d'essais constructeur

Model / Type Ref.
Ref. De type

UMC 50 + UAL65(Aux.)

Additional information (if necessary may also be reported on page 2)
Informations complémentaires (si nécessaire, peuvent être indiqué sur la
2ème page)

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

60947-4-1(ed.2);am1;am2

As show 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

2009TS01817

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Korea Electrotechnology Research Institute (KERI)
Sa-dong 1271-19, Sangnok-gu, Ansan-si, Gyeonggi-do, 426-170, Republic of Korea

Ce Certificat d'essai OC est établi par l'Organisme National de Certification

KERI

Date: 2009-09-14

Signature: Mr. Ki-Taek Lee



Test Report issued under the responsibility of



TEST REPORT

IEC 60947-4-1

Low-voltage switchgear and controlgear

Part 4: Contactors and motor-starters

Section 1: Electromechanical contactors and motor-starters

Report Reference No. : 2009TS01817

Tested by (name+ signature)..... : AHN, Sang-Pil *Ahn Sang-Pil*

Witnessed by (name+ signature)..... : -

Supervised by (name+ signature)..... : -

Approved by (name+ signature)..... : PARK, Nam-Ok *Park Nam-Ok*

Date of issue : 2009-09-03

CB Testing laboratory : KERI-SEOUL

Address..... : #1271-19, Sa-dong, Sangnok-gu, Ansan-si, Gyeonggi-do,
426-170, Rep. of Korea

Testing location/ procedure..... : CBTL RMT SMT WMT TMP

Testing location/ address : #1271-19, Sa-dong, Sangnok-gu, Ansan-si, Gyeonggi-do, 426-170, Rep. of KOREA

Applicant's name : HYUNDAI HEAVY INDUSTRIES CO., LTD.

Address..... : #1, Jeonha-dong, Dong-gu, Ulsan-city, 682-792, Rep. of KOREA

Test specification..... :

Standard..... : IEC 60947-4-1:2000(2nd Ed.) + A1:2002+A2:2005
used in conjunction with IEC 60947-1:2004(4th Ed.)

Test procedure : CB

Non-standard test method : N/A

Test Report Form No. : IECEN60947_4_1B

Test Report Form(s) Originator..... : KEMA Quality B.V.

Master TRF : Dated 2006-06

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TEST CERTIFICATE

CERTIFICAT D'ESSAI OC

Product Produit	Magnetic contactor with the thermal overload relay
Name and adresse of the Applicant Nom et adresse du demandeur	Hyundai Heavy Industries Co., Ltd. #1, Jeonha-dong, Dong-gu, Ulsan-si, 682-792, Korea, Republic of
Name and adresse of the manufacturer Nom et adresse du fabricant	Hyundai Heavy Industries Co., Ltd. #1, Jeonha-dong, Dong-gu, Ulsan-si, 682-792, Korea, Republic of
Name and adresse of the factory Nom et adresse de l'usine	Hyundai Heavy Industries Co., Ltd. #1, Jeonha-dong, Dong-gu, Ulsan-si, 682-792, Korea, Republic of
Rating and principal characteristics Valeurs nominales et caractéristiques principales	3 poles AC 220 V / 440 V 65 A
Trademark (if any) Marque de fabrique (si elle existe)	
Type of manufacturer's Testing Laboratories used Type de programme de laboratoire d'essais constructeur	
Model / Type Ref. Ref. De type	UMC 65 + UTH65(TOR) + UAL65(Aux.)
Additional information (if necessary may also be reported on page 2) informations complémentaires (si nécessaire, peuvent être indiqué sur la 2eme page)	
A sample of Product was tested and found to be in conformity with Un échantillon de ce produit a été essayé et été considéré conforme à la	60947-4-1(ed.2);am1;am2
As show 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	2009TS01818

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

Korea Electrotechnology Research Institute (KERI)
Sa-dong 1271-19, Sangnok-gu, Ansan-si, Gyeonggi-do, 426-170, Republic of Korea

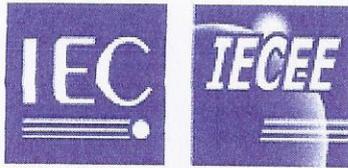
Ce Certificat d'essai OC est établi par l'Organisme National de Certification



Date: 2009-09-14

Signature: Mr. Ki-Taek Lee





Test Report issued under the responsibility of



TEST REPORT

IEC 60947-4-1

Low-voltage switchgear and controlgear

Part 4: Contactors and motor-starters

Section 1: Electromechanical contactors and motor-starters

Report Reference No. : 2009TS01818
 Tested by (name+ signature)..... : AHN, Sang-Pil
 Witnessed by (name+ signature)..... : -
 Supervised by (name+ signature)..... : -
 Approved by (name+ signature)..... : PARK, Nam-Ok
 Date of issue : 2009-09-03

Ahn Sang-Pil

Park Nam-Ok

CB Testing laboratory : KERI-SEOUL
 Address..... : #1271-19, Sa-dong, Sangnok-gu, Ansan-si, Gyeonggi-do,
 426-170, Rep. of Korea
 Testing location/ procedure..... : CBTL RMT SMT WMT TMP
 Testing location/ address : #1271-19, Sa-dong, Sangnok-gu, Ansan-si, Gyeonggi-do, 426-170, Rep. of KOREA

Applicant's name : HYUNDAI HEAVY INDUSTRIES CO., LTD.
 Address : #1, Jeonha-dong, Dong-gu, Ulsan-city, 682-792, Rep. of KOREA

Test specification..... :
 Standard..... : IEC 60947-4-1:2000(2nd Ed.) + A1:2002+A2:2005
 used in conjunction with IEC 60947-1:2004(4th Ed.)
 Test procedure : CB
 Non-standard test method : N/A

Test Report Form No. : IECEN60947_4_1B
 Test Report Form(s) Originator..... : KEMA Quality B.V.
 Master TRF : Dated 2006-06

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TEST CERTIFICATE

Product
Produit
Magnetic contactor

Name and adresse of the Applicant
Nom et adresse du demandeur
Hyundai Heavy Industries Co., Ltd.
#1, Jeonha-dong, Dong-gu, Ulsan-si, 682-792,
Korea, Republic of

Name and adresse of the manufacturer
Nom et adresse du fabricant
Hyundai Heavy Industries Co., Ltd.
#1, Jeonha-dong, Dong-gu, Ulsan-si, 682-792,
Korea, Republic of

Name and adresse of the factory
Nom et adresse de l'usine
Hyundai Heavy Industries Co., Ltd.
#1, Jeonha-dong, Dong-gu, Ulsan-si, 682-792,
Korea, Republic of

Rating and principal characteristics
Valeurs nominales et caractéristiques principales
3 poles AC 220 V / 440 V 75 A

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


Type of manufacturer's Testing Laboratories used
Type de programme de laboratoire d'essais constructeur
UMC 75 + UAL100(Aux.)

Model / Type Ref.
Ref. De type

Additional information (if necessary may also be reported on page 2)
informations complémentaires (si nécessaire, peuvent être indiqué sur la
2eme page)
60947-4-1(ed.2);am1;am2
2009TS01819

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

As show in the Test Report Ref. No. which forms part of this certificate
Comme indiqué dans le Rapport d'essais numéro de référence qui constitue
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This CB Test Certificate is issued by the National Certification Body:

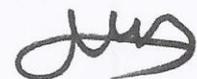
Korea Electrotechnology Research Institute (KERI)
Sa-dong 1271-19, Sangnok-gu, Ansan-si, Gyeonggi-do, 426-170, Republic of Korea

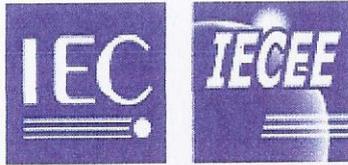
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Date: 2009-09-14

Signature: Mr. Ki-Taek Lee





Test Report issued under the responsibility of



TEST REPORT
IEC 60947-4-1

Low-voltage switchgear and controlgear
Part 4: Contactors and motor-starters

Section 1: Electromechanical contactors and motor-starters

Report Reference No. : 2009TS01819

Tested by (name+ signature) : AHN, Sang-Pil *Ahn Sang-Pil*

Witnessed by (name+ signature) : -

Supervised by (name+ signature) : -

Approved by (name+ signature) : PARK, Nam-Ok *Park Nam-Ok*

Date of issue : 2009-09-03

CB Testing laboratory : KERI-SEOUL

Address : #1271-19, Sa-dong, Sangnok-gu, Ansan-si, Gyeonggi-do,
426-170, Rep. of Korea

Testing location/ procedure : CBTL RMT SMT WMT TMP

Testing location/ address : #1271-19, Sa-dong, Sangnok-gu, Ansan-si, Gyeonggi-do, 426-170, Rep. of KOREA

Applicant's name : HYUNDAI HEAVY INDUSTRIES CO., LTD.

Address : #1, Jeonha-dong, Dong-gu, Ulsan-city, 682-792, Rep. of KOREA

Test specification :

Standard : IEC 60947-4-1:2000(2nd Ed.) + A1:2002+A2:2005
used in conjunction with IEC 60947-1:2004(4th Ed.)

Test procedure : CB

Non-standard test method : N/A

Test Report Form No. : IECEN60947_4_1B

Test Report Form(s) Originator : KEMA Quality B.V.

Master TRF : Dated 2006-06

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TEST CERTIFICATE

CERTIFICAT D'ESSAI OC

Product
Produit

Magnetic contactor

Name and adresse of the Applicant
Nom et adresse du demandeur

Hyundai Heavy Industries Co., Ltd.
#1, Jeonha-dong, Dong-gu, Ulsan-si, 682-792,
Korea, Republic of

Name and adresse of the manufacturer
Nom et adresse du fabricant

Hyundai Heavy Industries Co., Ltd.
#1, Jeonha-dong, Dong-gu, Ulsan-si, 682-792,
Korea, Republic of

Name and adresse of the factory
Nom et adresse de l'usine

Hyundai Heavy Industries Co., Ltd.
#1, Jeonha-dong, Dong-gu, Ulsan-si, 682-792,
Korea, Republic of

Rating and principal characteristics
Valeurs nominales et caractéristiques principales

3 poles AC 220 V / 440 V 85 A

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



Type of manufacturer's Testing Laboratories used
Type de programme de laboratoire d'essais constructeur

Model / Type Ref.
Ref. De type

UMC 85 + UAL100(Aux.)

Additional information (if necessary may also be reported on page 2)
Informations complémentaires (si nécessaire, peuvent être indiqués sur la
2ème page)

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

60947-4-1(ed.2);am1;am2

As show 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

2009TS01820

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Korea Electrotechnology Research Institute (KERI)
Sa-dong 1271-19, Sangnok-gu, Ansan-si, Gyeonggi-do, 426-170, Republic of Korea

Date: 2009-09-14

Signature: Mr. Ki-Taek Lee



Test Report issued under the responsibility of

KERI

**TEST REPORT
IEC 60947-4-1**

**Low-voltage switchgear and controlgear
Part 4: Contactors and motor-starters**

Section 1: Electromechanical contactors and motor-starters

Report Reference No. : 2009TS01820
Tested by (name+ signature)..... : AHN, Sang-Pil
Witnessed by (name+ signature)..... : -
Supervised by (name+ signature)..... : -
Approved by (name+ signature)..... : PARK, Nam-Ok
Date of issue : 2009-09-03

Ahn Sang-Pil
.....
.....
Park Nam-Ok
.....

CB Testing laboratory : KERI-SEOUL
Address..... : #1271-19, Sa-dong, Sangnok-gu, Ansan-si, Gyeonggi-do,
426-170, Rep. of Korea
Testing location/ procedure..... : **CBTL** **RMT** **SMT** **WMT** **TMP**
Testing location/ address..... : #1271-19, Sa-dong, Sangnok-gu, Ansan-si, Gyeonggi-do, 426-170, Rep. of KOREA

Applicant's name : HYUNDAI HEAVY INDUSTRIES CO., LTD.
Address..... : #1, Jeonha-dong, Dong-gu, Ulsan-city, 682-792, Rep. of KOREA

Test specification..... :
Standard..... : IEC 60947-4-1:2000(2nd Ed.) + A1:2002+A2:2005
used in conjunction with IEC 60947-1:2004(4th Ed.)
Test procedure : CB
Non-standard test method : N/A

Test Report Form No. : IECEN60947_4_1B
Test Report Form(s) Originator..... : KEMA Quality B.V.
Master TRF : Dated 2006-06

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TEST CERTIFICATE

CERTIFICAT D'ESSAI OC

Product Produit	Magnetic contactor with the thermal overload relay
Name and adresse of the Applicant Nom et adresse du demandeur	Hyundai Heavy Industries Co., Ltd. #1, Jeonha-dong, Dong-gu, Ulsan-si, 682-792, Korea, Republic of
Name and adresse of the manufacturer Nom et adresse du fabricant	Hyundai Heavy Industries Co., Ltd. #1, Jeonha-dong, Dong-gu, Ulsan-si, 682-792, Korea, Republic of
Name and adresse of the factory Nom et adresse de l'usine	Hyundai Heavy Industries Co., Ltd. #1, Jeonha-dong, Dong-gu, Ulsan-si, 682-792, Korea, Republic of
Rating and principal characteristics Valeurs nominales et caractéristiques principales	3 poles AC 220 V / 440 V 100 A
Trademark (if any) Marque de fabrique (si elle existe)	
Type of manufacturer's Testing Laboratories used Type de programme de laboratoire d'essais constructeur	
Model / Type Ref. Ref. De type	UMC 100 + UTH100(TOR) + UAL100(Aux.)
Additional information (if neccessary may also be reported on page 2) informations complémentaires (si nécessaire, peuvent être indiqué sur la 2eme page)	
A sample of Product was tested and found to be in conformity with Un échantillon de ce produit a été essayé et été considéré conforme à la	60947-4-1(ed.2);am1;am2
As show 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	2009TS01821

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

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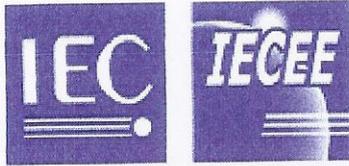
Korea Electrotechnology Research Institute (KERI)
Sa-dong 1271-19, Sangnok-gu, Ansan-si, Gyeonggi-do, 426-170, Republic of Korea



Date: 2009-09-14

Signature: Mr. Ki-Taek Lee





Test Report issued under the responsibility of



**TEST REPORT
IEC 60947-4-1**

**Low-voltage switchgear and controlgear
Part 4: Contactors and motor-starters**

Section 1: Electromechanical contactors and motor-starters

Report Reference No. : 2009TS01821
Tested by (name+ signature)..... : AHN, Sang-Pil
Witnessed by (name+ signature)..... : -
Supervised by (name+ signature).... : -
Approved by (name+ signature)..... : PARK, Nam-Ok
Date of issue : 2009-09-03

Ahn Sang-Pil
.....
.....
Park Nam-Ok
.....

CB Testing laboratory : KERI-SEOUL
Address..... : #1271-19, Sa-dong, Sangnok-gu, Ansan-si, Gyeonggi-do,
426-170, Rep. of Korea
Testing location/ procedure..... : CBTL RMT SMT WMT TMP
Testing location/ address : #1271-19, Sa-dong, Sangnok-gu, Ansan-si, Gyeonggi-do, 426-
170, Rep. of KOREA

Applicant's name : HYUNDAI HEAVY INDUSTRIES CO., LTD.
Address..... : #1, Jeonha-dong, Dong-gu, Ulsan-city, 682-792, Rep. of KOREA

Test specification..... :
Standard..... : IEC 60947-4-1:2000(2nd Ed.) + A1:2002+A2:2005
used in conjunction with IEC 60947-1:2004(4th Ed.)
Test procedure : CB
Non-standard test method : N/A

Test Report Form No. : IECEN60947_4_1B
Test Report Form(s) Originator..... : KEMA Quality B.V.
Master TRF : Dated 2006-06

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CB TEST CERTIFICATE

CERTIFICAT D'ESSAI OC

Product
Produit

Magnetic contactor

Name and adresse of the Applicant
Nom et adresse du demandeur

HYUNDAI HEAVY INDUSTRIES CO., LTD.
#1, Jeonha-dong, Dong-gu, Ulsan-cityi, 682-792
Korea, Republic of

Name and adresse of the manufacturer
Nom et adresse du fabricant

HYUNDAI HEAVY INDUSTRIES CO., LTD.
#1, Jeonha-dong, Dong-gu, Ulsan-cityi, 682-792
Korea, Republic of

Name and adresse of the factory
Nom et adresse de l'usine

HYUNDAI HEAVY INDUSTRIES CO., LTD.
#1, Jeonha-dong, Dong-gu, Ulsan-cityi, 682-792
Korea, Republic of

Rating and principal characteristics
Valeurs nominales et caractéristiques principales

3 Poles AC 220 V / 440 V 115 A

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



Type of manufacturer's Testing Laboratories used
Type de programme de laboratoire d'essais constructeur

Model / Type Ref.
Ref. De type

UMC 115, UAL400(Aux.)

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

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

60947-4-1(ed.2);am1

As show 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

2010TS00487

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

Korea Electrotechnology Research Institute (KERI)
Sa-dong 1271-19, Sangnok-gu, Ansan-si, Gyeonggi-do, 426-170, Republic of Korea

Ce Certificat d'essai OC est établi par l'Organisme National de Certification

KERI

Date: 2010-04-22

Signature: Mr. Ho-Sung Won



Test Report issued under the responsibility of



TEST REPORT

IEC 60947-4-1

Low-voltage switchgear and controlgear

Part 4: Contactors and motor-starters

Section 1: Electromechanical contactors and motor-starters

Report Reference No. : 2010TS00487

Tested by (name+ signature) : AHN, Sang-Pil *Ahn, Sang-Pil*

Witnessed by (name+ signature) : -

Supervised by (name+ signature) : -

Approved by (name+ signature) : PARK, Nam-Ok *Park Nam-Ok*

Date of issue : 2010-03-30

CB Testing laboratory : KERI-SEOUL

Address : 1271-19, Sa-dong, Sangnok-gu, Ansan-si, Gyeonggi-do,
426-170, Rep. of Korea

Testing location/ procedure : CBTL RMT SMT WMT TMP

Testing location/ address : 1271-19, Sa-dong, Sangnok-gu, Ansan-si, Gyeonggi-do, 426-170,
Rep. of KOREA

Applicant's name : HYUNDAI HEAVY INDUSTRIES CO., LTD.

Address : 1, Jeonha-dong, Dong-gu, Ulsan-city, 682-792, Rep. of KOREA

Test specification :

Standard : IEC 60947-4-1:2000(2nd Ed.) + A1:2002+A2:2005
used in conjunction with IEC 60947-1:2004(4th Ed.)

Test procedure : CB

Non-standard test method : N/A

Test Report Form No. : IECEN60947_4_1B

Test Report Form(s) Originator : KEMA Quality B.V.

Master TRF : Dated 2006-06

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TEST CERTIFICATE

CERTIFICAT D'ESSAI OC

Product
Produit

Magnetic contactor

Name and adresse of the Applicant
Nom et adresse du demandeur

HYUNDAI HEAVY INDUSTRIES CO., LTD.
#1, Jeonha-dong, Dong-gu, Ulsan-cityi, 682-792
Korea, Republic of

Name and adresse of the manufacturer
Nom et adresse du fabricant

HYUNDAI HEAVY INDUSTRIES CO., LTD.
#1, Jeonha-dong, Dong-gu, Ulsan-cityi, 682-792
Korea, Republic of

Name and adresse of the factory
Nom et adresse de l'usine

HYUNDAI HEAVY INDUSTRIES CO., LTD.
#1, Jeonha-dong, Dong-gu, Ulsan-cityi, 682-792
Korea, Republic of

Rating and principal characteristics
Valeurs nominales et caractéristiques principales

3 Poles AC 220 V / 440 V 130 A

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



Type of manufacturer's Testing Laboratories used
Type de programme de laboratoire d'essais constructeur

Model / Type Ref.
Ref. De type

UMC 130, UAL400(Aux.)

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

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

60947-4-1(ed.2);am1

As show 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

2010TS00488

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

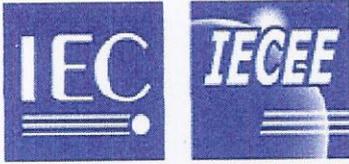
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Korea Electrotechnology Research Institute (KERI)
Sa-dong 1271-19, Sangnok-gu, Ansan-si, Gyeonggi-do, 426-170, Republic of Korea

KERI

Date: 2010-04-22

Signature: Mr. Ho-Sung Won



Test Report issued under the responsibility of



**TEST REPORT
IEC 60947-4-1**

**Low-voltage switchgear and controlgear
Part 4: Contactors and motor-starters**

Section 1: Electromechanical contactors and motor-starters

Report Reference No. : 2010TS00488
Tested by (name+ signature) : AHN, Sang-Pil *Ahn, Sang-Pil*
Witnessed by (name+ signature) : -
Supervised by (name+ signature) : -
Approved by (name+ signature) : PARK, Nam-Ok *Park Namok*
Date of issue : 2010-03-30

CB Testing laboratory : KERI-SEOUL
Address : 1271-19, Sa-dong, Sangnok-gu, Ansan-si, Gyeonggi-do,
426-170, Rep. of Korea
Testing location/ procedure : CBTL RMT SMT WMT TMP
Testing location/ address : **1271-19, Sa-dong, Sangnok-gu, Ansan-si, Gyeonggi-do, 426-170,
Rep. of KOREA**

Applicant's name : HYUNDAI HEAVY INDUSTRIES CO., LTD.
Address : 1, Jeonha-dong, Dong-gu, Ulsan-city, 682-792, Rep. of KOREA

Test specification :
Standard : IEC 60947-4-1:2000(2nd Ed.) + A1:2002+A2:2005
used in conjunction with IEC 60947-1:2004(4th Ed.)
Test procedure : CB
Non-standard test method : N/A

Test Report Form No. : IECEN60947_4_1B
Test Report Form(s) Originator : KEMA Quality B.V.
Master TRF : Dated 2006-06

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FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

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

CB TEST CERTIFICATE

CERTIFICAT D'ESSAI OC

Product
Produit

Magnetic contactor

Name and adresse of the Applicant
Nom et adresse du demandeur

HYUNDAI HEAVY INDUSTRIES CO., LTD.
#1, Jeonha-dong, Dong-gu, Ulsan-cityi, 682-792
Korea, Republic of

Name and adresse of the manufacturer
Nom et adresse du fabricant

HYUNDAI HEAVY INDUSTRIES CO., LTD.
#1, Jeonha-dong, Dong-gu, Ulsan-cityi, 682-792
Korea, Republic of

Name and adresse of the factory
Nom et adresse de l'usine

HYUNDAI HEAVY INDUSTRIES CO., LTD.
#1, Jeonha-dong, Dong-gu, Ulsan-cityi, 682-792
Korea, Republic of

Rating and principal characteristics
Valeurs nominales et caractéristiques principales

3 Poles AC 220 V / 440 V 150 A

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



Type of manufacturer's Testing Laboratories used
Type de programme de laboratoire d'essais constructeur

UMC 150, UTH150(TOR), UAL400(Aux.)

Model / Type Ref.
Ref. De type

Additional information (if necessary may also be reported on page 2)
Informations complémentaires (si nécessaire, peuvent être indiqué sur la
2^e page)

60947-4-1(ed.2);am1

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

As show 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

2010TS00489

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

Korea Electrotechnology Research Institute (KERI)
Sa-dong 1271-19, Sangnok-gu, Ansan-si, Gyeonggi-do, 426-170, Republic of Korea

Ce Certificat d'essai OC est établi par l'Organisme National de Certification

KERI

Date: 2010-04-22

Signature: Mr. Ho-Sung Won



Test Report issued under the responsibility of



TEST REPORT

IEC 60947-4-1

Low-voltage switchgear and controlgear

Part 4: Contactors and motor-starters

Section 1: Electromechanical contactors and motor-starters

Report Reference No. : 2010TS00489

Tested by (name+ signature) : AHN, Sang-Pil *Ahn, Sang-Pil*

Witnessed by (name+ signature) : -

Supervised by (name+ signature) : -

Approved by (name+ signature) : PARK, Nam-Ok *Park Nam-Ok*

Date of issue : 2010-03-30

CB Testing laboratory : KERI-SEOUL

Address : 1271-19, Sa-dong, Sangnok-gu, Ansan-si, Gyeonggi-do,
426-170, Rep. of Korea

Testing location/ procedure : CBTL RMT SMT WMT TMP

Testing location/ address : **1271-19, Sa-dong, Sangnok-gu, Ansan-si, Gyeonggi-do, 426-170,
Rep. of KOREA**

Applicant's name : HYUNDAI HEAVY INDUSTRIES CO., LTD.

Address : 1, Jeonha-dong, Dong-gu, Ulsan-city, 682-792, Rep. of KOREA

Test specification :

Standard : IEC 60947-4-1:2000(2nd Ed.) + A1:2002+A2:2005
used in conjunction with IEC 60947-1:2004(4th Ed.)

Test procedure : CB

Non-standard test method : N/A

Test Report Form No. : IECEN60947_4_1B

Test Report Form(s) Originator : KEMA Quality B.V.

Master TRF : Dated 2006-06

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