

CB TEST CERTIFICATE

CERTIFICAT D'ESSAI OC

Product Produit	Magnetic contactor with the thermal overload relay
Name and address of the Applicant Nom et adresse du demandeur	HYUNDAI HEAVY INDUSTRIES CO., LTD. 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792 Korea, Republic of
Name and address of the manufacturer Nom et adresse du fabricant	HYUNDAI HEAVY INDUSTRIES CO., LTD. 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792 Korea, Republic of
Name and address of the factory Nom et adresse de l'usine	HYUNDAI HEAVY INDUSTRIES CO., LTD. 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792 Korea, Republic of
Rating and principal characteristics aleurs nominales et caractéristiques principales	3 poles AC 220 V / 440 V 65 A
Trademark (if any) Marque de fabrique (si elle existe)	 HYUNDAI
Type of manufacturer's Testing Laboratories used Type de programme de laboratoire d'essais constructeur	
Model / Type Ref. Réf. de type	HGC 65 + HGT 65(TOR)
Additional information (if necessary may also be reported on page 2) Les informations complémentaires (si nécessaire, peuvent être indiquées sur la 2ème page)	
A sample of product was tested and found to be in conformity with IEC Un échantillon de ce produit a été essayé et été considéré conforme à la CEI	60947-1(ed.5);am1 60947-4-1(ed.3);am1
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	2014TS00509

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





Test Report issued under the responsibility of:

TEST REPORT
IEC 60947-4-1
Contactors and motor-starters
Electromechanical contactors and motor-starters

Report Number..... : 2014TS00509
Date of issue : 2014-03-20
Total number of pages 70

Applicant's name : HYUNDAI HEAVY INDUSTRIES CO., LTD.
Address..... : 1000, Bangeojjinsunhwan-doro, Dong-gu, Ulsan, 682-792, Korea

Test specification:

Standard : IEC 60947-4-1:2009 (3th Ed.) + A1:2012 used in conjunction with IEC 60947-1:2007(5th Ed.) + A1:2010
Test procedure..... : CB Scheme
Non-standard test method.....: N/A

Test Report Form No...... : IEC60947_4_1B
Test Report Form(s) Originator.... : DEKRA Certification B.V.
Master TRF : Dated 2013-07

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This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

Test item description..... : Magnetic contactor with the thermal overload relay
Trade Mark..... : HYUNDAI
Manufacturer..... : HYUNDAI HEAVY INDUSTRIES CO., LTD.
Model/Type reference..... : HGC 65 + HGT 65(TOR)
Ratings..... : 3 poles AC 220 V / 440 V 65 A

CB TEST CERTIFICATE

CERTIFICAT D'ESSAI OC

Product Produit	Magnetic contactor with the thermal overload relay
Name and address of the Applicant Nom et adresse du demandeur	HYUNDAI HEAVY INDUSTRIES CO., LTD. 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792 Korea, Republic of
Name and address of the manufacturer Nom et adresse du fabricant	HYUNDAI HEAVY INDUSTRIES CO., LTD. 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792 Korea, Republic of
Name and address of the factory Nom et adresse de l'usine	HYUNDAI HEAVY INDUSTRIES CO., LTD. 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792 Korea, Republic of
Rating and principal characteristics aleurs nominales et caractéristiques principales	3 poles AC 220 V / 440 V 85 A
Trademark (if any) Marque de fabrique (si elle existe)	 HYUNDAI
Type of manufacturer's Testing Laboratories used Type de programme de laboratoire d'essais constructeur	
Model / Type Ref. Réf. de type	HGC 85 + HGT 100(TOR)
Additional information (if necessary may also be reported on page 2) Les informations complémentaires (si nécessaire, peuvent être indiquées sur la 2ème page)	
A sample of product was tested and found to be in conformity with IEC Un échantillon de ce produit a été essayé et été considéré conforme à la CEI	60947-1(ed.5);am1 60947-4-1(ed.3);am1
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	2014TS00511

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Date: 2014-03-31

Signature: Mr. Ho-Sung Won



page 1 of 1



Test Report issued under the responsibility of:

TEST REPORT
IEC 60947-4-1
Contactors and motor-starters
Electromechanical contactors and motor-starters

Report Number..... : 2014TS00511

Date of issue : 2014-03-20

Total number of pages : 70

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

Address..... : 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792, Korea

Test specification:

Standard : IEC 60947-4-1:2009 (3th Ed.) + A1:2012 used in conjunction with IEC 60947-1:2007(5th Ed.) + A1:2010

Test procedure : CB Scheme

Non-standard test method..... : N/A

Test Report Form No. : IEC60947_4_1B

Test Report Form(s) Originator.... : DEKRA Certification B.V.

Master TRF : Dated 2013-07

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Test item description..... : Magnetic contactor with the thermal overload relay

Trade Mark..... : HYUNDAI

Manufacturer..... : HYUNDAI HEAVY INDUSTRIES CO., LTD.

Model/Type reference..... : HGC 85 + HGT 100(TOR)

Ratings..... : 3 poles AC 220 V / 440 V 85 A

CB TEST CERTIFICATE

CERTIFICAT D'ESSAI OC

Product Produit	Magnetic contactor with the thermal overload relay
Name and address of the Applicant Nom et adresse du demandeur	HYUNDAI HEAVY INDUSTRIES CO., LTD. 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792 Korea, Republic of
Name and address of the manufacturer Nom et adresse du fabricant	HYUNDAI HEAVY INDUSTRIES CO., LTD. 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792 Korea, Republic of
Name and address of the factory Nom et adresse de l'usine	HYUNDAI HEAVY INDUSTRIES CO., LTD. 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792 Korea, Republic of
Rating and principal characteristics aleurs nominales et caractéristiques principales	3 poles AC 220 V / 440 V 100 A
Trademark (if any) Marque de fabrique (si elle existe)	 HYUNDAI
Type of manufacturer's Testing Laboratories used Type de programme de laboratoire d'essais constructeur	
Model / Type Ref. Réf. de type	HGC 100 + HGT 100(TOR)
Additional information (if necessary may also be reported on page 2) Les informations complémentaires (si nécessaire, peuvent être indiquées sur la 2ème page)	
A sample of product was tested and found to be in conformity with IEC Un échantillon de ce produit a été essayé et été considéré conforme à la CEI	60947-1(ed.5);am1 60947-4-1(ed.3);am1
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	2014TS00512

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



Date: 2014-03-31

Signature: Mr. Ho-Sung Won





Test Report issued under the responsibility of:

**TEST REPORT
IEC 60947-4-1
Contactors and motor-starters
Electromechanical contactors and motor-starters**

Report Number..... : 2014TS00512
Date of issue : 2014-03-20
Total number of pages 70

Applicant's name : HYUNDAI HEAVY INDUSTRIES CO., LTD.
Address..... : 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792, Korea

Test specification:

Standard : IEC 60947-4-1:2009 (3th Ed.) + A1:2012 used in conjunction with IEC 60947-1:2007(5th Ed.) + A1:2010
Test procedure..... : CB Scheme
Non-standard test method.....: N/A

Test Report Form No...... : IEC60947_4_1B
Test Report Form(s) Originator.... : DEKRA Certification B.V.
Master TRF : Dated 2013-07

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Test item description..... : Magnetic contactor with the thermal overload relay
Trade Mark..... : HYUNDAI
Manufacturer..... : HYUNDAI HEAVY INDUSTRIES CO., LTD.
Model/Type reference..... : HGC 100 + HGT 100(TOR)
Ratings..... : 3 poles AC 220 V / 440 V 100 A

CB TEST CERTIFICATE

CERTIFICAT D'ESSAI OC

Product Produit	Magnetic contactor with the thermal overload relay
Name and address of the Applicant Nom et adresse du demandeur	HYUNDAI HEAVY INDUSTRIES CO., LTD. 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792 Korea, Republic of
Name and address of the manufacturer Nom et adresse du fabricant	HYUNDAI HEAVY INDUSTRIES CO., LTD. 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792 Korea, Republic of
Name and address of the factory Nom et adresse de l'usine	HYUNDAI HEAVY INDUSTRIES CO., LTD. 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 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)	 HYUNDAI
Type of manufacturer's Testing Laboratories used Type de programme de laboratoire d'essais constructeur	
Model / Type Ref. Réf. de type	HGC 115 + HGT 150K 115(TOR)
Additional information (if necessary may also be reported on page 2) Les informations complémentaires (si nécessaire, peuvent être indiquées sur la 2ème page)	
A sample of product was tested and found to be in conformity with IEC Un échantillon de ce produit a été essayé et été considéré conforme à la CEI	60947-1(ed.5);am1 60947-4-1(ed.3);am1
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	2014TS01924

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Test Report issued under the responsibility of:

TEST REPORT
IEC 60947-4-1
Contactors and motor-starters
Electromechanical contactors and motor-starters

Report Number..... : 2014TS01924
Date of issue : August 01, 2014
Total number of pages 71

Applicant's name : HYUNDAI HEAVY INDUSTRIES CO., LTD.
Address..... : 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792, Korea

Test specification:

Standard : IEC 60947-4-1:2009 (3th Ed.) + A1:2012 used in conjunction with IEC 60947-1:2007(5th Ed.) + A1:2010
Test procedure..... : CB Scheme
Non-standard test method.....: N/A

Test Report Form No...... : IEC60947_4_1B
Test Report Form(s) Originator.... : DEKRA Certification B.V.
Master TRF : Dated 2013-07

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Test item description..... : Magnetic contactor with the thermal overload relay
Trade Mark..... :  **HYUNDAI**
Manufacturer : HYUNDAI HEAVY INDUSTRIES CO., LTD.
Model/Type reference..... : HGC 115 + HGT 150K 115(TOR)
Ratings..... : 3 poles AC 220 V / 440 V 115 A

CB TEST CERTIFICATE

CERTIFICAT D'ESSAI OC

Product Produit	Magnetic contactor with the thermal overload relay
Name and address of the Applicant Nom et adresse du demandeur	HYUNDAI HEAVY INDUSTRIES CO., LTD. 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792 Korea, Republic of
Name and address of the manufacturer Nom et adresse du fabricant	HYUNDAI HEAVY INDUSTRIES CO., LTD. 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792 Korea, Republic of
Name and address of the factory Nom et adresse de l'usine	HYUNDAI HEAVY INDUSTRIES CO., LTD. 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 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)	 HYUNDAI
Type of manufacturer's Testing Laboratories used Type de programme de laboratoire d'essais constructeur	
Model / Type Ref. Réf. de type	HGC 130 + HGT 150K 130(TOR)
Additional information (if necessary may also be reported on page 2) Les informations complémentaires (si nécessaire, peuvent être indiquées sur la 2ème page)	
A sample of product was tested and found to be in conformity with IEC Un échantillon de ce produit a été essayé et été considéré conforme à la CEI	60947-1(ed.5);am1 60947-4-1(ed.3);am1
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	2014TS01925

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

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Date: 2014-09-16

Signature: Mr. Ho-Sung Won





Test Report issued under the responsibility of:

TEST REPORT
IEC 60947-4-1
Contactors and motor-starters
Electromechanical contactors and motor-starters

Report Number..... : 2014TS01925
Date of issue : August 01, 2014
Total number of pages : 71

Applicant's name : HYUNDAI HEAVY INDUSTRIES CO., LTD.
Address..... : 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792, Korea

Test specification:

Standard : IEC 60947-4-1:2009 (3th Ed.) + A1:2012 used in conjunction with IEC 60947-1:2007(5th Ed.) + A1:2010
Test procedure : CB Scheme
Non-standard test method..... : N/A

Test Report Form No. : IEC60947_4_1B
Test Report Form(s) Originator : DEKRA Certification B.V.
Master TRF : Dated 2013-07

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This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

Test item description..... : Magnetic contactor with the thermal overload relay
Trade Mark..... : **▲HYUNDAI**
Manufacturer : HYUNDAI HEAVY INDUSTRIES CO., LTD.
Model/Type reference..... : HGC 130 + HGT 150K 130(TOR)
Ratings..... : 3 poles AC 220 V / 440 V 130 A

CB TEST CERTIFICATE

CERTIFICAT D'ESSAI OC

Product Produit	Magnetic contactor with the thermal overload relay
Name and address of the Applicant Nom et adresse du demandeur	HYUNDAI HEAVY INDUSTRIES CO., LTD. 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792 Korea, Republic of
Name and address of the manufacturer Nom et adresse du fabricant	HYUNDAI HEAVY INDUSTRIES CO., LTD. 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792 Korea, Republic of
Name and address of the factory Nom et adresse de l'usine	HYUNDAI HEAVY INDUSTRIES CO., LTD. 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 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)	 HYUNDAI
Type of manufacturer's Testing Laboratories used Type de programme de laboratoire d'essais constructeur	
Model / Type Ref. Réf. de type	HGC 150 + HGT 150K 150(TOR)
Additional information (if necessary may also be reported on page 2) Les informations complémentaires (si nécessaire, peuvent être indiquées sur la 2ème page)	
A sample of product was tested and found to be in conformity with IEC Un échantillon de ce produit a été essayé et été considéré conforme à la CEI	60947-1(ed.5);am1 60947-4-1(ed.3);am1
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	2014TS01926

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

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Date: 2014-09-16

Signature: Mr. Ho-Sung Won





Test Report issued under the responsibility of:

TEST REPORT
IEC 60947-4-1
Contactors and motor-starters
Electromechanical contactors and motor-starters

Report Number..... : 2014TS01926
Date of issue : August 01, 2014
Total number of pages 71

Applicant's name : HYUNDAI HEAVY INDUSTRIES CO., LTD.
Address..... : 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792, Korea

Test specification:

Standard : IEC 60947-4-1:2009 (3th Ed.) + A1:2012 used in conjunction with IEC 60947-1:2007(5th Ed.) + A1:2010
Test procedure..... : CB Scheme
Non-standard test method..... : N/A

Test Report Form No..... : IEC60947_4_1B
Test Report Form(s) Originator.... : DEKRA Certification B.V.
Master TRF : Dated 2013-07

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Test item description..... : Magnetic contactor with the thermal overload relay
Trade Mark..... : ▲HYUNDAI
Manufacturer : HYUNDAI HEAVY INDUSTRIES CO., LTD.
Model/Type reference..... : HGC 150 + HGT 150K 150(TOR)
Ratings..... : 3 poles AC 220 V / 440 V 150 A

CB TEST CERTIFICATE

CERTIFICAT D'ESSAI OC

Product Produit	Magnetic contactor with the thermal overload relay
Name and address of the Applicant Nom et adresse du demandeur	HYUNDAI HEAVY INDUSTRIES CO., LTD. 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792 Korea, Republic of
Name and address of the manufacturer Nom et adresse du fabricant	HYUNDAI HEAVY INDUSTRIES CO., LTD. 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792 Korea, Republic of
Name and address of the factory Nom et adresse de l'usine	HYUNDAI HEAVY INDUSTRIES CO., LTD. 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792 Korea, Republic of
Rating and principal characteristics Valeurs nominales et caractéristiques principales	3 poles AC 220 V / 440 V 185 A
Trademark (if any) Marque de fabrique (si elle existe)	 HYUNDAI
Type of manufacturer's Testing Laboratories used Type de programme de laboratoire d'essais constructeur	
Model / Type Ref. Réf. de type	HGC 185 + HGT 265K 185(TOR)
Additional information (if necessary may also be reported on page 2) Les informations complémentaires (si nécessaire, peuvent être indiquées sur la 2ème page)	
A sample of product was tested and found to be in conformity with IEC Un échantillon de ce produit a été essayé et été considéré conforme à la CEI	60947-1(ed.5);am1 60947-4-1(ed.3);am1
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	2014TS01927

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

Korea Electrotechnology Research Institute (KERI)
111, Hanggaui-ro, Sangnok-gu, Ansan-si, Gyeonggi-do, 426-170, Korea

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



Date: 2014-09-16

Signature: Mr. Ho-Sung Won





Test Report issued under the responsibility of:

TEST REPORT
IEC 60947-4-1
Contactors and motor-starters
Electromechanical contactors and motor-starters

Report Number..... : 2014TS01927
Date of issue : August 01, 2014
Total number of pages 71

Applicant's name : HYUNDAI HEAVY INDUSTRIES CO., LTD.
Address..... : 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792, Korea

Test specification:

Standard : IEC 60947-4-1:2009 (3th Ed.) + A1:2012 used in conjunction with IEC 60947-1:2007(5th Ed.) + A1:2010
Test procedure..... : CB Scheme
Non-standard test method.....: N/A

Test Report Form No...... : IEC60947_4_1B
Test Report Form(s) Originator.... : DEKRA Certification B.V.
Master TRF : Dated 2013-07

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This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

Test item description..... : Magnetic contactor with the thermal overload relay
Trade Mark..... : **▲ HYUNDAI**
Manufacturer..... : HYUNDAI HEAVY INDUSTRIES CO., LTD.
Model/Type reference..... : HGC 185 + HGT 265K 185(TOR)
Ratings..... : 3 poles AC 220 V / 440 V 185 A

CB TEST CERTIFICATE

CERTIFICAT D'ESSAI OC

Product Produit	Magnetic contactor with the thermal overload relay
Name and address of the Applicant Nom et adresse du demandeur	HYUNDAI HEAVY INDUSTRIES CO., LTD. 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792 Korea, Republic of
Name and address of the manufacturer Nom et adresse du fabricant	HYUNDAI HEAVY INDUSTRIES CO., LTD. 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792 Korea, Republic of
Name and address of the factory Nom et adresse de l'usine	HYUNDAI HEAVY INDUSTRIES CO., LTD. 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792 Korea, Republic of
Rating and principal characteristics Valeurs nominales et caractéristiques principales	3 poles AC 220 V / 440 V 225 A
Trademark (if any) Marque de fabrique (si elle existe)	 HYUNDAI
Type of manufacturer's Testing Laboratories used Type de programme de laboratoire d'essais constructeur	
Model / Type Ref. Réf. de type	HGC 225 + HGT 265K 225(TOR)
Additional information (if necessary may also be reported on page 2) Les informations complémentaires (si nécessaire, peuvent être indiquées sur la 2ème page)	
A sample of product was tested and found to be in conformity with IEC Un échantillon de ce produit a été essayé et été considéré conforme à la CEI	60947-1(ed.5);am1 60947-4-1(ed.3);am1
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	2014TS01928

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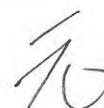
Korea Electrotechnology Research Institute (KERI)
111, Hanggaul-ro, Sangnok-gu, Ansan-si, Gyeonggi-do, 426-170, Korea

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



Date: 2014-09-16

Signature: Mr. Ho-Sung Won





Test Report issued under the responsibility of:

TEST REPORT
IEC 60947-4-1
Contactors and motor-starters
Electromechanical contactors and motor-starters

Report Number..... : 2014TS01928
Date of issue : August 01, 2014
Total number of pages 71

Applicant's name : HYUNDAI HEAVY INDUSTRIES CO., LTD.
Address..... : 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792, Korea

Test specification:

Standard : IEC 60947-4-1:2009 (3th Ed.) + A1:2012 used in conjunction with IEC 60947-1:2007(5th Ed.) + A1:2010
Test procedure..... : CB Scheme
Non-standard test method..... : N/A

Test Report Form No..... : IEC60947_4_1B
Test Report Form(s) Originator.... : DEKRA Certification B.V.
Master TRF : Dated 2013-07

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Test item description..... : Magnetic contactor with the thermal overload relay
Trade Mark..... : **HYUNDAI**
Manufacturer : HYUNDAI HEAVY INDUSTRIES CO., LTD.
Model/Type reference..... : HGC 225 + HGT 265K 225(TOR)
Ratings..... : 3 poles AC 220 V / 440 V 225 A

CB TEST CERTIFICATE

CERTIFICAT D'ESSAI OC

Product
Produit

Magnetic contactor with the thermal overload relay

Name and address of the Applicant
Nom et adresse du demandeurHYUNDAI HEAVY INDUSTRIES CO., LTD.
1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792
Korea, Republic ofName and address of the manufacturer
Nom et adresse du fabricantHYUNDAI HEAVY INDUSTRIES CO., LTD.
1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792
Korea, Republic ofName and address of the factory
Nom et adresse de l'usineHYUNDAI HEAVY INDUSTRIES CO., LTD.
1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792
Korea, Republic ofRating and principal characteristics
Valeurs nominales et caractéristiques principales

3 poles AC 220 V / 440 V 265 A

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

HYUNDAI

Type of manufacturer's Testing Laboratories used
Type de programme de laboratoire d'essais constructeurModel / Type Ref.
Réf. de type

HGC 265 + HGT 265K 265(TOR)

Additional information (if necessary may also be reported on page 2)
Les informations complémentaires (si nécessaire, peuvent être indiquées sur
la 2ème page)A sample of product was tested and found to be in conformity with IEC
Un échantillon de ce produit a été essayé et été considéré conforme à la CEI60947-1(ed.5);am1
60947-4-1(ed.3);am1As 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

2014TS01929

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

Korea Electrotechnology Research Institute (KERI)
111, Hangeul-ro, Sangnok-gu, Ansan-si, Gyeonggi-do, 426-170, Korea

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Date: 2014-09-16

Signature: Mr. Ho-Sung Won



page 1 of 1



Test Report issued under the responsibility of:

TEST REPORT
IEC 60947-4-1
Contactors and motor-starters
Electromechanical contactors and motor-starters

Report Number..... : 2014TS01929
Date of issue : August 01, 2014
Total number of pages 71

Applicant's name : HYUNDAI HEAVY INDUSTRIES CO., LTD.
Address..... : 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792, Korea

Test specification:

Standard : IEC 60947-4-1:2009 (3th Ed.) + A1:2012 used in conjunction with IEC 60947-1:2007(5th Ed.) + A1:2010
Test procedure..... : CB Scheme
Non-standard test method..... : N/A

Test Report Form No...... : IEC60947_4_1B
Test Report Form(s) Originator.... : DEKRA Certification B.V.
Master TRF : Dated 2013-07

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Test item description..... : Magnetic contactor with the thermal overload relay
Trade Mark..... : **▲HYUNDAI**
Manufacturer : HYUNDAI HEAVY INDUSTRIES CO., LTD.
Model/Type reference..... : HGC 265 + HGT 265K 265(TOR)
Ratings..... : 3 poles AC 220 V / 440 V 265 A

CB TEST CERTIFICATE

CERTIFICAT D'ESSAI OC

Product Produit	Magnetic contactor with the thermal overload relay
Name and address of the Applicant Nom et adresse du demandeur	HYUNDAI HEAVY INDUSTRIES CO., LTD. 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792 Korea, Republic of
Name and address of the manufacturer Nom et adresse du fabricant	HYUNDAI HEAVY INDUSTRIES CO., LTD. 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792 Korea, Republic of
Name and address of the factory Nom et adresse de l'usine	HYUNDAI HEAVY INDUSTRIES CO., LTD. 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792 Korea, Republic of
Rating and principal characteristics Valeurs nominales et caractéristiques principales	3 poles AC 220 V / 440 V 300 A
Trademark (if any) Marque de fabrique (si elle existe)	 HYUNDAI
Type of manufacturer's Testing Laboratories used Type de programme de laboratoire d'essais constructeur	
Model / Type Ref. Réf. de type	HGC 300 + HGT 500K 300(TOR)
Additional information (if necessary may also be reported on page 2) Les informations complémentaires (si nécessaire, peuvent être indiquées sur la 2ème page)	
A sample of product was tested and found to be in conformity with IEC Un échantillon de ce produit a été essayé et été considéré conforme à la CEI	60947-1(ed.5);am1 60947-4-1(ed.3);am1
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	2014TS01930

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

Korea Electrotechnology Research Institute (KERI)
111, Hangeul-ro, Sangnok-gu, Ansan-si, Gyeonggi-do, 426-170, Korea

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



Date: 2014-09-16

Signature: Mr. Ho-Sung Won





Test Report issued under the responsibility of:

TEST REPORT
IEC 60947-4-1
Contactors and motor-starters
Electromechanical contactors and motor-starters

Report Number..... : 2014TS01930
Date of issue : August 01, 2014
Total number of pages 71

Applicant's name : HYUNDAI HEAVY INDUSTRIES CO., LTD.
Address..... : 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792, Korea

Test specification:

Standard : IEC 60947-4-1:2009 (3th Ed.) + A1:2012 used in conjunction with IEC 60947-1:2007(5th Ed.) + A1:2010
Test procedure..... : CB Scheme
Non-standard test method..... : N/A

Test Report Form No...... : IEC60947_4_1B
Test Report Form(s) Originator.... : DEKRA Certification B.V.
Master TRF : Dated 2013-07

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Test item description..... : Magnetic contactor with the thermal overload relay
Trade Mark..... :  **HYUNDAI**
Manufacturer : HYUNDAI HEAVY INDUSTRIES CO., LTD.
Model/Type reference..... : HGC 300 + HGT 500K 300(TOR)
Ratings..... : 3 poles AC 220 V / 440 V 300 A

CB TEST CERTIFICATE

CERTIFICAT D'ESSAI OC

Product Produit	Magnetic contactor with the thermal overload relay
Name and address of the Applicant Nom et adresse du demandeur	HYUNDAI HEAVY INDUSTRIES CO., LTD. 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792 Korea, Republic of
Name and address of the manufacturer Nom et adresse du fabricant	HYUNDAI HEAVY INDUSTRIES CO., LTD. 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792 Korea, Republic of
Name and address of the factory Nom et adresse de l'usine	HYUNDAI HEAVY INDUSTRIES CO., LTD. 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792 Korea, Republic of
Rating and principal characteristics Valeurs nominales et caractéristiques principales	3 poles AC 220 V / 440 V 400 A
Trademark (if any) Marque de fabrique (si elle existe)	 HYUNDAI
Type of manufacturer's Testing Laboratories used Type de programme de laboratoire d'essais constructeur	
Model / Type Ref. Réf. de type	HGC 400 + HGT 500K 400(TOR)
Additional information (if necessary may also be reported on page 2) Les informations complémentaires (si nécessaire, peuvent être indiquées sur la 2ème page)	
A sample of product was tested and found to be in conformity with IEC Un échantillon de ce produit a été essayé et été considéré conforme à la CEI	60947-1(ed.5);am1 60947-4-1(ed.3);am1
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	2014TS01931

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

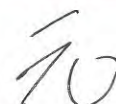
Korea Electrotechnology Research Institute (KERI)
111, Hanggaul-ro, Sangnok-gu, Ansan-si, Gyeonggi-do, 426-170, Korea

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Date: 2014-09-16

Signature: Mr. Ho-Sung Won






Test Report issued under the responsibility of:

TEST REPORT
IEC 60947-4-1
Contactors and motor-starters
Electromechanical contactors and motor-starters

Report Number	: 2014TS01931
Date of issue	: August 01, 2014
Total number of pages	: 71
Applicant's name	: HYUNDAI HEAVY INDUSTRIES CO., LTD.
Address	: 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792, Korea
Test specification:	
Standard	: IEC 60947-4-1:2009 (3 th Ed.) + A1:2012 used in conjunction with IEC 60947-1:2007(5 th Ed.) + A1:2010
Test procedure	: CB Scheme
Non-standard test method	: N/A
Test Report Form No.	: IEC60947_4_1B
Test Report Form(s) Originator	: DEKRA Certification B.V.
Master TRF	: Dated 2013-07
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Test item description	: Magnetic contactor with the thermal overload relay
Trade Mark	: HYUNDAI
Manufacturer	: HYUNDAI HEAVY INDUSTRIES CO., LTD.
Model/Type reference	: HGC 400 + HGT 500K 400(TOR)
Ratings	: 3 poles AC 220 V / 440 V 400 A

CB TEST CERTIFICATE

CERTIFICAT D'ESSAI OC

Product Produit	Magnetic contactor with the thermal overload relay
Name and address of the Applicant Nom et adresse du demandeur	HYUNDAI HEAVY INDUSTRIES CO., LTD. 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792 Korea, Republic of
Name and address of the manufacturer Nom et adresse du fabricant	HYUNDAI HEAVY INDUSTRIES CO., LTD. 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792 Korea, Republic of
Name and address of the factory Nom et adresse de l'usine	HYUNDAI HEAVY INDUSTRIES CO., LTD. 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792 Korea, Republic of
Rating and principal characteristics Valeurs nominales et caractéristiques principales	3 poles AC 220 V / 440 V 500 A
Trademark (if any) Marque de fabrique (si elle existe)	 HYUNDAI
Type of manufacturer's Testing Laboratories used Type de programme de laboratoire d'essais constructeur	
Model / Type Ref. Réf. de type	HGC 500 + HGT 500K 500(TOR)
Additional information (if necessary may also be reported on page 2) Les informations complémentaires (si nécessaire, peuvent être indiquées sur la 2ème page)	
A sample of product was tested and found to be in conformity with IEC Un échantillon de ce produit a été essayé et été considéré conforme à la CEI	60947-1(ed.5);am1 60947-4-1(ed.3);am1
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	2014TS01934

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Test Report issued under the responsibility of:

TEST REPORT
IEC 60947-4-1
Contactors and motor-starters
Electromechanical contactors and motor-starters

Report Number..... : 2014TS01934
Date of issue : August 01, 2014
Total number of pages 71

Applicant's name : HYUNDAI HEAVY INDUSTRIES CO., LTD.
Address..... : 1000, Bangeojinsunhwan-doro, Dong-gu, Ulsan, 682-792, Korea

Test specification:
Standard : IEC 60947-4-1:2009 (3th Ed.) + A1:2012 used in conjunction with IEC 60947-1:2007(5th Ed.) + A1:2010
Test procedure..... : CB Scheme
Non-standard test method.....: N/A

Test Report Form No...... : IEC60947_4_1B
Test Report Form(s) Originator.... : DEKRA Certification B.V.
Master TRF : Dated 2013-07

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Test item description..... : Magnetic contactor with the thermal overload relay
Trade Mark..... : **▲HYUNDAI**
Manufacturer..... : HYUNDAI HEAVY INDUSTRIES CO., LTD.
Model/Type reference..... : HGC 500 + HGT 500K 500(TOR)
Ratings..... : 3 poles AC 220 V / 440 V 500 A