


## 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 9 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 9 + HGT 18(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	2014TS00502

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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: 2014-03-31

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** ..... : 2014TS00502

**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 (3<sup>th</sup> Ed.) + A1:2012 used in conjunction with IEC 60947-1:2007(5<sup>th</sup> 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 9 + HGT 18(TOR)

**Ratings**..... : 3 poles AC 220 V / 440 V 9 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 12 A
Trademark (if any) Marque de fabrication (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 12 + HGT 18(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	2014TS00503

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

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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..... : 2014TS00503

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 (3<sup>th</sup> Ed.) + A1:2012 used in conjunction with IEC 60947-1:2007(5<sup>th</sup> 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 12 + HGT 18(TOR)

Ratings..... : 3 poles AC 220 V / 440 V 12 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 18 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 18 + HGT 18(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	2014TS00504

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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..... : 2014TS00504

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 (3<sup>th</sup> Ed.) + A1:2012 used in conjunction with IEC 60947-1:2007(5<sup>th</sup> 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 18 + HGT 18(TOR)

Ratings..... : 3 poles AC 220 V / 440 V 18 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 25 A
Trademark (if any) Marque de fabrication (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 25 + HGT 40(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	2014TS00505

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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**..... : 2014TS00505  
**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 (3<sup>th</sup> Ed.) + A1:2012 used in conjunction with IEC 60947-1:2007(5<sup>th</sup> 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 25 + HGT 40(TOR)  
**Ratings**..... : 3 poles AC 220 V / 440 V 25 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 32 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 32 + HGT 40(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	2014TS00506

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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**..... : 2014TS00506  
**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 (3<sup>th</sup> Ed.) + A1:2012 used in conjunction with IEC 60947-1:2007(5<sup>th</sup> 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.  
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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 32 + HGT 40(TOR)  
**Ratings**..... : 3 poles AC 220 V / 440 V 32 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 40 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 40 + HGT 40(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	2014TS00507

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

Korea Electrotechnology Research Institute (KERI)  
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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



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**..... : 2014TS00507

**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 (3<sup>th</sup> Ed.) + A1:2012 used in conjunction with IEC 60947-1:2007(5<sup>th</sup> 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 40 + HGT 40(TOR)

**Ratings**..... : 3 poles AC 220 V / 440 V 40 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 50 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 50 + 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	2014TS00508

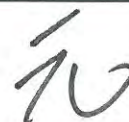
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Ce Certificat d'essai OC est établi par l'Organisme National de Certification

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

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**..... : 2014TS00508

**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 (3<sup>th</sup> Ed.) + A1:2012 used in conjunction with IEC 60947-1:2007(5<sup>th</sup> 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 50 + HGT 65(TOR)

**Ratings**..... : 3 poles AC 220 V / 440 V 50 A