


# Test Verification of Conformity

Verification Number: 201200600SHA-V1

On the basis of the referenced test report(s), sample(s) tested of the below product have been found to comply with the standards harmonized with the directives listed on this verification at the time the tests were carried out. Other standards and Directives may be relevant to the product. This verification is part of the full test report(s) and should be read in conjunction with it <them>.

Once compliance with all product relevant  mark directives are verified, including any relevant e.g. risk assessment and production control, the manufacturer may indicate compliance by signing a Declaration of Conformity themselves and applying the mark to products identical to the tested sample(s).

Applicant Name & Address:	HIMEL HONG KONG LIMITED 11/F Kerry Ctr 683 King's Rd Quarry Bay Hong Kong
Manufacturing site Name & Address:	DELIXI ELECTRIC LTD Delixi High Tech Industrial Park, Liushi Town, Yueqing City, Zhejiang Province, China 325604 DELIXI ELECTRIC (WUHU) LTD Wuhu Machinery Industrial Park, Wuhu City, Anhui Province, China 241100
Product Description:	Low-voltage switchgear and controlgear: Contactors and motor- starters
Ratings & Principle Characteristics:	See Annex pages
Models/Type References:	HDC3-****
Brand Name(s):	
Standard(s)/Directive(s):	EN IEC 60947-4-1: 2019 and EN 60947-5-1: 2017 Low Voltage Directive 2014/35/EU
Verification Issuing Office Name & Address:	Intertek Testing Services Shanghai Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, China
Date of Tests:	2020-08-05 to 2020-09-17
Test Report Number(s):	201200600SHA-001, -002, 003, -004, -005, -006, -007, -008, -009, -010.



Signature

Name: Oliver Wei

Position: Manager

Date: 03 February 2021

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## APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 201200600SHA-V1

Model: HDC3-06

Main circuit Ratings:  $U_i=690V$ ,  $U_{imp}=6kV$ ,  $I_{th}=16A$ ,  $U_s=AC24V$ , 36V, 48V, 110V, 127V, 220/230V, 240V, 380/400V, 415V, 440V(50Hz, 50/60Hz),  $I_r=1kA/690V$ ,  $I_q=20kA/400V$

Category:	AC-3			AC-4	
$U_e(V)$ :	220/230V	380/400V	660/690V	380/400V	660/690V
$I_e(A)$ :	6,0A	6,0A	3,8A	2,6A	1,0A

Auxiliary contact: 1NC or 1NO

Ratings:  $I_{th}=10A$ , conditional short-circuit current: 1kA

Category	AC-15			DC-13	
$U_e$ :	220V	380V		220V	
$I_e$ :	1,6A	0,95A		0,15A	

Model: HDC3-09, HDC3-09N

Ratings:  $U_i=690V$ ,  $U_{imp}=6kV$ ,  $I_{th}=25A$ ,  $U_s=AC24V$ , 36V, 48V, 110V, 127V, 220/230V, 240V, 380/400V, 415V, 440V(50Hz, 50/60Hz),  $I_r=1kA/690V$ ,  $I_q=20kA/400V$

Category:	AC-3			AC-4	
$U_e(V)$ :	220/230V	380/400V	660/690V	380/400V	660/690V
$I_e(A)$ :	9,0A	9,0A	6,6A	3,5A	1,5A

Auxiliary contact: 1NC or 1NO or 1NO1NC

Ratings:  $I_{th}=10A$ , conditional short-circuit current: 1kA

Category	AC-15			DC-13	
Category:	220V	380V		220V	
$U_e(V)$ :	1,6A	0,95A		0,15A	

Model: HDC3-12, HDC3-12N

Ratings:  $U_i=690V$ ,  $U_{imp}=6kV$ ,  $I_{th}=25A$ ,  $U_s=AC24V$ , 36V, 48V, 110V, 127V, 220/230V, 240V, 380/400V, 415V, 440V(50Hz, 50/60Hz),  $I_r=1kA/690V$ ,  $I_q=20kA/400V$

Category	AC-3			AC-4	
$U_e(V)$ :	220/230V	380/400V	660/690V	380/400V	660/690V
$I_e(A)$ :	12A	12A	8,9A	5,0A	2,0A

Auxiliary contact: 1NC or 1NO or 1NO1NC

Ratings:  $I_{th}=10A$ , conditional short-circuit current: 1kA

Category:	AC-15			DC-13	
$U_e(V)$ :	220V	380V		220V	
$I_e(A)$ :	1,6A	0,95A		0,15A	

## APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 201200600SHA-V1

Model:	HDC3-18, HDC3-18N				
Main circuit Ratings:	U <sub>i</sub> =690V, U <sub>imp</sub> =6kV, I <sub>th</sub> =32A, U <sub>s</sub> =AC24V, 36V, 48V, 110V, 127V, 220/230V, 240V, 380/400V, 415V, 440V(50Hz, 50/60Hz), I <sub>r</sub> =3kA/690V, I <sub>q</sub> =20kA/400V				
Category:	AC-3				
U <sub>e</sub> (V):	220/230V	380/400V	660/690V	380/400V	660/690V
I <sub>e</sub> (A):	18A	18A	12A	7,7A	3,8A
Auxiliary contact:	1NC or 1NO or 1NO1NC				
Ratings:	I <sub>th</sub> =10A, conditional short-circuit current: 1kA				
Category:	AC-15		DC-13		
U <sub>e</sub> :	220V	380V	220V		
I <sub>e</sub> :	1,6A	0,95A	0,15A		
Model:	HDC3-25, HDC3-25N				
Ratings:	U <sub>i</sub> =690V, U <sub>imp</sub> =6kV, I <sub>th</sub> =40A, U <sub>s</sub> =AC24V, 36V, 48V, 110V, 127V, 220/230V, 240V, 380/400V, 415V, 440V(50Hz, 50/60Hz), I <sub>r</sub> =3kA/690V, I <sub>q</sub> =20kA/400V				
Category:	AC-3		AC-4		
U <sub>e</sub> (V):	220/230V	380/400V	660/690V	380/400V	660/690V
I <sub>e</sub> (A):	25A	25A	18A	8,5A	4,4A
Auxiliary contact:	1NC or 1NO or 1NO1NC				
Ratings:	I <sub>th</sub> =10A, conditional short-circuit current: 1kA				
Category:	AC-15		DC-13		
Category:	220V	380V	220V		
U <sub>e</sub> (V):	1,6A	0,95A	0,15A		
Model:	HDC3-32, HDC3-32N				
Ratings:	U <sub>i</sub> =690V, U <sub>imp</sub> =6kV, I <sub>th</sub> =50A, U <sub>s</sub> =AC24V, 36V, 48V, 110V, 127V, 220/230V, 240V, 380/400V, 415V, 440V(50Hz, 50/60Hz), I <sub>r</sub> =3kA/690V, I <sub>q</sub> =20kA/400V				
Category:	AC-3		AC-4		
U <sub>e</sub> (V):	220/230V	380/400V	660/690V	380/400V	660/690V
I <sub>e</sub> , (A):	32A	32A	22A	12A	7,5A
Auxiliary contact:	1NC or 1NO or 1NO1NC				
Ratings:	I <sub>th</sub> =10A, conditional short-circuit current: 1kA				
Category:	AC-15		DC-13		
U <sub>e</sub> (V):	220V	380V	220V		
I <sub>e</sub> (A):	1,6A	0,95A	0,15A		

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This is an Appendix to Test Verification of Conformity Number: 201200600SHA-V1

Model:	HDC3-38, HDC3-38N				
Main circuit Ratings:	U <sub>i</sub> =690V, U <sub>imp</sub> =6kV, I <sub>th</sub> =50A, U <sub>s</sub> =AC24V, 36V, 48V, 110V, 127V, 220/230V, 240V, 380/400V, 415V, 440V(50Hz, 50/60Hz), I <sub>r</sub> =3kA/690V, I <sub>q</sub> =20kA/400V				
Category:	AC-3				
U <sub>e</sub> (V):	220/230V	380/400V	660/690V	380/400V	660/690V
I <sub>e</sub> (A):	38A	38A	22A	14A	8,9A
Auxiliary contact:	1NC or 1NO or 1NO1NC				
Ratings:	I <sub>th</sub> =10A, conditional short-circuit current: 1kA				
Category:	AC-15		DC-13		
U <sub>e</sub> :	220V	380V	220V		
I <sub>e</sub> :	1,6A	0,95A	0,15A		
Model:	HDC3-40, HDC3-40N				
Ratings:	U <sub>i</sub> =690V, U <sub>imp</sub> =6kV, I <sub>th</sub> =60A, U <sub>s</sub> =AC24V, 36V, 48V, 110V, 127V, 220/230V, 240V, 380/400V, 415V, 440V(50Hz, 50/60Hz), I <sub>r</sub> =3kA/690V, I <sub>q</sub> =20kA/400V				
Category:	AC-3		AC-4		
U <sub>e</sub> (V):	220/230V	380/400V	660/690V	380/400V	660/690V
I <sub>e</sub> (A):	40A	40A	34A	18,5A	9A
Auxiliary contact:	1NO1NC				
Ratings:	I <sub>th</sub> =10A, conditional short-circuit current: 1kA				
Category:	AC-15		DC-13		
Category:	220V	380V	220V		
U <sub>e</sub> (V):	1,6A	0,95A	0,15A		
Model:	HDC3-50, HDC3-50N				
Ratings:	U <sub>i</sub> =690V, U <sub>imp</sub> =6kV, I <sub>th</sub> =80A, U <sub>s</sub> =AC24V, 36V, 48V, 110V, 127V, 220/230V, 240V, 380/400V, 415V, 440V(50Hz, 50/60Hz), I <sub>r</sub> =3kA/690V, I <sub>q</sub> =20kA/400V				
Category:	AC-3		AC-4		
U <sub>e</sub> (V):	220/230V	380/400V	660/690V	380/400V	660/690V
I <sub>e</sub> , (A):	50A	50A	39A	24A	12A
Auxiliary contact:	1NO1NC				
Ratings:	I <sub>th</sub> =10A, conditional short-circuit current: 1kA				
Category:	AC-15		DC-13		
U <sub>e</sub> (V):	220V	380V	220V		
I <sub>e</sub> (A):	1,6A	0,95A	0,15A		

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## APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 201200600SHA-V1

Model: HDC3-65, HDC3-65N  
 Main circuit Ratings:  $U_i=690V$ ,  $U_{imp}=6kV$ ,  $I_{th}=80A$ ,  $U_s=AC24V$ , 36V, 48V, 110V, 127V, 220/230V, 240V, 380/400V, 415V, 440V(50Hz, 50/60Hz),  $I_r=3kA/690V$ ,  $I_r=5kA/400V$ ,  $I_q=20kA/400V$   
 Category: AC-3

$U_e(V)$ :	220/230V	380/400V	660/690V	380/400V	660/690V
$I_e(A)$ :	65A	65A	42A	28A	14A

Auxiliary contact: 1NO1NC  
 Ratings:  $I_{th}=10A$ , conditional short-circuit current: 1kA  
 Category AC-15 DC-13  
 $U_e$ : 220V 380V 220V  
 $I_e$ : 1,6A 0,95A 0,15A

Model: HDC3-80, HDC3-80N  
 Ratings:  $U_i=690V$ ,  $U_{imp}=6kV$ ,  $I_{th}=125A$ ,  $U_s=AC24V$ , 36V, 48V, 110V, 127V, 220/230V, 240V, 380/400V, 415V, 440V(50Hz, 50/60Hz),  $I_r=3kA/690V$ ,  $I_r=5kA/400V$ ,  $I_q=20kA/400V$   
 Category: AC-3 AC-4

$U_e(V)$ :	220/230V	380/400V	660/690V	380/400V	660/690V
$I_e(A)$ :	80A	80A	49A	37A	17,3A

Auxiliary contact: 1NO1NC  
 Ratings:  $I_{th}=10A$ , conditional short-circuit current: 1kA  
 Category AC-15 DC-13  
 Category: 220V 380V 220V  
 $U_e(V)$ : 1,6A 0,95A 0,15A

Model: HDC3-95, HDC3-95N  
 Ratings:  $U_i=690V$ ,  $U_{imp}=6kV$ ,  $I_{th}=125A$ ,  $U_s=AC24V$ , 36V, 48V, 110V, 127V, 220/230V, 240V, 380/400V, 415V, 440V(50Hz, 50/60Hz),  $I_r=3kA/690V$ ,  $I_r=5kA/400V$ ,  $I_q=20kA/400V$   
 Category: AC-3 AC-4

$U_e(V)$ :	220/230V	380/400V	660/690V	380/400V	660/690V
$I_e(A)$ :	95A	95A	49A	44A	21,3A

Auxiliary contact: 1NO1NC  
 Ratings:  $I_{th}=10A$ , conditional short-circuit current: 1kA  
 Category AC-15 DC-13  
 Category: 220V 380V 220V  
 $U_e(V)$ : 1,6A 0,95A 0,15A

## APPENDIX: Test Verification of Conformity

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Model explanation:

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HDC    3    -    \*    \*    \*  
a)    b)    c)    d)    e)    f)

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- a): Alternating current contactor
- b): Design No.
- c): the rated operational current (under 380/400V of AC-3 category)
- d): NO Auxiliary contactor
- e): NC Auxiliary contactor
- f): Conventional: Omitted, N: reversible AC Contactor

Note: Number of NO, NC auxiliary contact and the combination type: 10, 01, 11  
(for 06A, only 01 or 10; for 09~38A, can be 01 or 10 or 11; for 40~95A, only 11)



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**Signature**

**Name: Oliver Wei**  
**Position: Manager**  
**Date: 03 February 2021**