Building a better future
Global Leader

LV Switchgear & Control Center

HiMCC

HYUNDAI
HEAVY INDUSTRIES CO.,LTD.

Low Voltage Switchgear & Control Center - HiMCC

CONTENTS

HiMCC offers simple engineering, quick installation and safety

Presentation

HiMCC is a modular motor control and low voltage distribution system featuring a fully withdrawable unit.

Use

HiMCC uses low voltage motor control centers of up to 1,000V for process control and electrical power distribution.

HiMCC can be applied to all arrangements and all types of layouts and location configurations.

HiMCC meets the most stringent requirements in term of:

- Personnel and equipment safety
- Easy, fast operation and maintenance
- Easy installation
- Future extensions

Low Voltage Switchgear & Control Center HiMCC

HiMCC is designed and manufactured in accordance with our quality assurance program which is based on ISO 9001, ISO 14001 and SHSAS 18001 accreditations.

Applications

Buildings, machinery and processes

Commercial	Industrial	Utilities
• Airports	• Printing	• Water treatment plants
• Warehouses	• Machinery	• Waste management
• Shopping malls	• Pharmaceutical	• Public transportation
• Schools	• Automotive, Paper & Pulp	• Telecommunications
• Hospitals	• Chemical	• Cable providers
• Office buildings	• Marine	• Energy distribution (electricity, gas)

HiMCC, Hyundai's low voltage motor control center, features a withdrawable unit, multi-tier construction, factory assembly and is suitable for LV distribution systems of up to 1,000V AC.

Major Feature

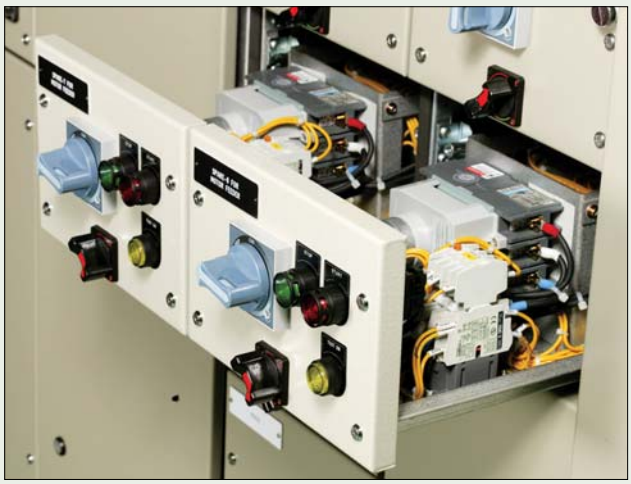
- Cost Savings
- Easy to Operate
- Advanced safety features
- Arc resistance

Technical Data

Applicable Standards

HiMCC complies with the following standards:

- IEC 60947-1: General rules
- IEC 60947-2: Circuit breakers
- IEC 60947-3: Switches
- IEC 60947-4: Contactors
- IEC 60439-1: Low voltage switchgear controlgear assembly
- IEC 61641: Internal arc fault
- IEC 60529: Degree of protection

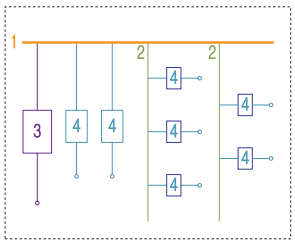


Rated insulation voltage			up to 1000V	
Rated operation voltage			up to 690V	
Rated frequency			50/60Hz	
Bus bar currents (3/4 poles)	Main	Rated current	up to 5000A	
		Rated short time withstand current	up to 100kA/1sec	
		Rated peak withstand current	up to 220kA	
	Vertical	Rated current	1000A	1200A
		Rated short time withstand current	65kA/1sec	80kA/1sec
		Rated peak withstand current	143kA	176kA
Mechanical characteristics	Dimensions	Height	2300mm	
		Width	1000mm	
		Depth	650mm (front only)/1200mm (back to back)	
	Degree of protection		Normal IP 4X up to IP 54	
	Surface protection	Frame	Galvanized	
		Enclosure	Paint RAL-7032 (Standard)	
		Internal subdivision	Galvanized	
Form degree			Form-4b	

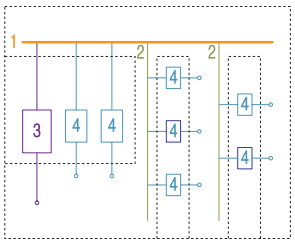
Forms of Internal Separation

In accordance with IEC 60439-1 and depending on customer requirements, the function compartments can be subdivided as per the following diagrams

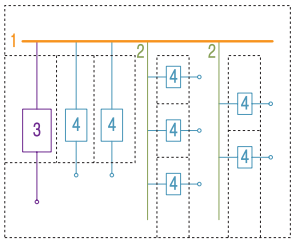
[Form 1]



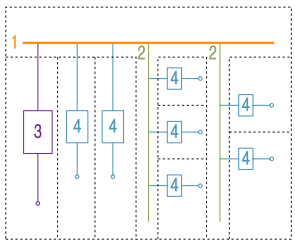
[Form 2a]



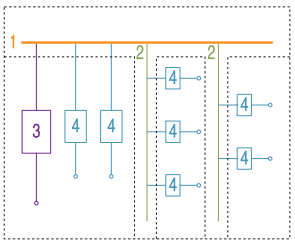
[Form 3a]



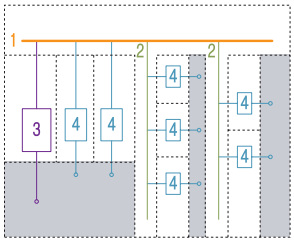
[Form 4a]



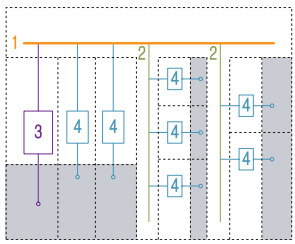
[Form 2b]



[Form 3b]



[Form 4b]



Functional unit
Terminal for external conductors

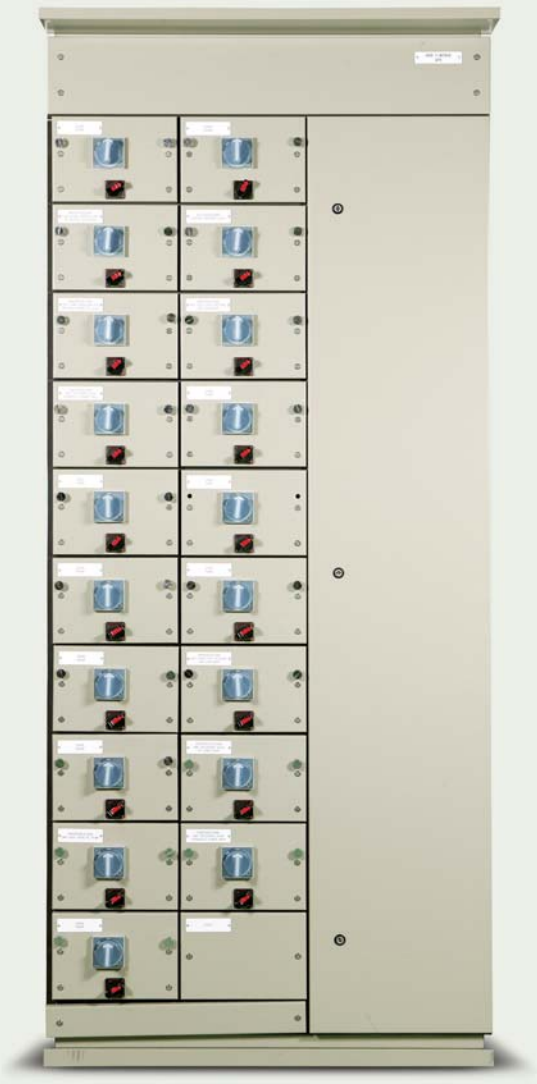
1 Main busbar
2 Vertical busbar

3 Incoming circuit
4 Outgoing circuit

Forms of internal separation according to **IEC 60439-1**

Withdrawable Unit Design

A distinction is made between the half module and full withdrawable units (sizes 1, 2, and 3), as shown in following figures.



High density packing with up to 20 feeders per cubicle.

Simple-to-operate withdrawable units prevent operator errors. Withdrawable units offer a large amount of space for individual accessories.

Front View (1/2 Module)

1 Module

2 Module

3 Module

HiMCC Withdrawable Units Size

The full withdrawable unit of size 1 has a height of one module spacing (200mm) and can be replaced by 2 units of size 1/2 (half module).
The withdrawable units of size 2 and 3 have heights of 2 and 3 module spacing, respectively.
The maximum complement of a cubicle is, for example, 10 full-size withdrawable units of size 1 or 20 miniature withdrawable units of size 1/2.

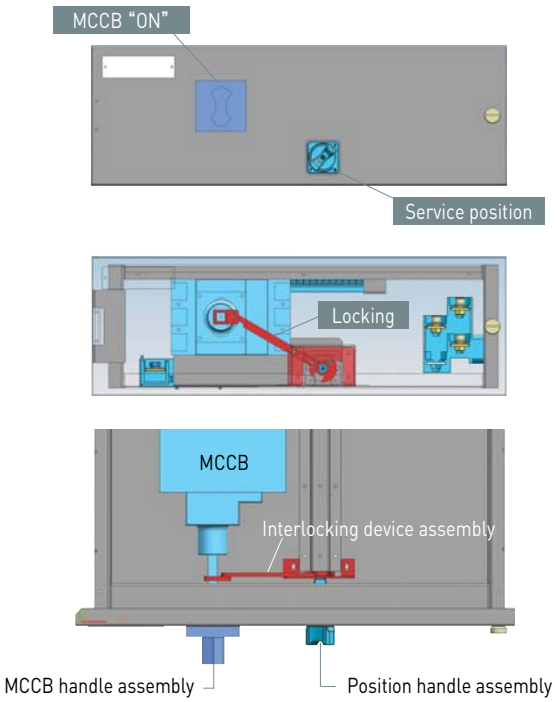
Control & Power Cable Connections

Type	Module	Capacity	Control part	Power part
	1/2 Module	100AF	1. Manufacturer's cable 1) Cable - Type: XHHW - Size: 1.5mm² - Color: Gray - Vinyl tube 2) Terminal block	1. Manufacturer's cable - 25mm² (SCP/Black) - Color U ⟶ Red V ⟶ White W ⟶ Blue 2. User's cable - up to 38mm² - 1 core/phase
	1M-3M	225AF	2. User's cable - Size: up to 2.5mm²	1. User's cable - up to 95mm² - 2 core/phase
		400AF		1. User's cable - up to 185mm² - 2 core/phase

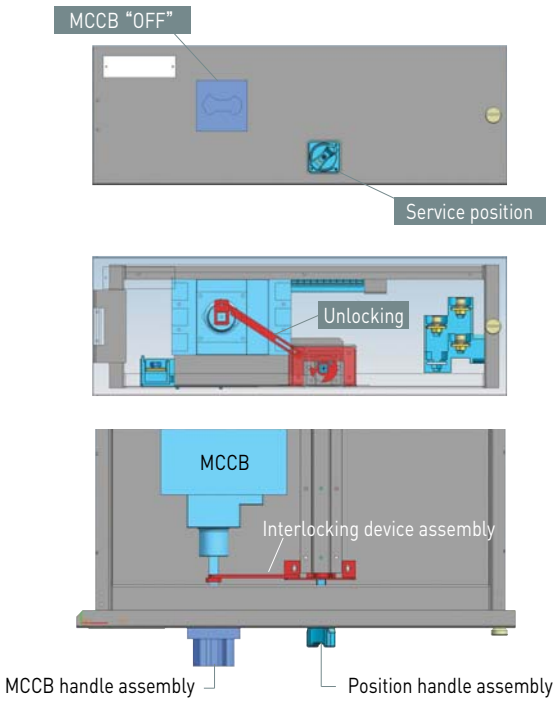
※The terminal block is the manufacturer's standard.
If specifications differ from the standard, advance notice must be given.

Interlocking Device

When the power is on, the operator is protected by preventing the unit from whithdrawal and insertion.



When the MCCB is on, the positon handle is locked by a locking bar, so the unit cannot be withdrawn and inserted.

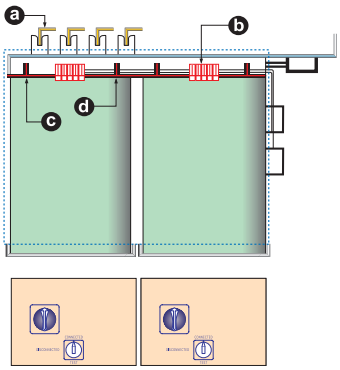
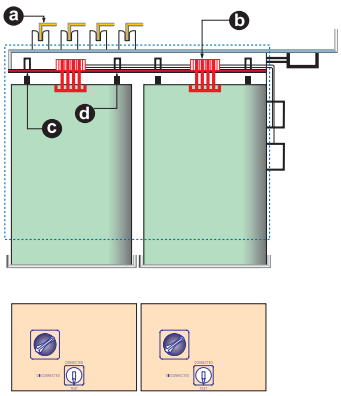
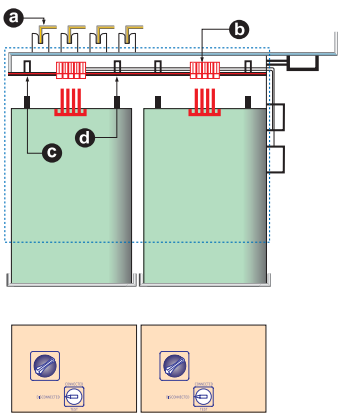


When the MCCB is off, the positon handle is released by a locking bar, so the unit can be withdrawn and inserted.

Locking bar is locked

Locking bar is released

Unit Position

Designation of position	Withdrawable principle	Description of function	
Connected Position 		MCCB	On
		Power circuit primary plug	Closed
		Power circuit secondary plug	Closed
		Control circuit	Closed
		The unit cannot be withdrawn in this position (the unit is mechanically interlocked)	
Test Position 		MCCB	Off
		Power circuit primary plug	Open
		Power circuit secondary plug	Open
		Control circuit	Closed
		The unit can be withdrawn by 30mm in this position	
Disconnected Position 		MCCB	Off
		Power circuit primary plug	Open
		Power circuit secondary plug	Open
		Control circuit	Open
		The unit can be completely drawn out from the cubicle	

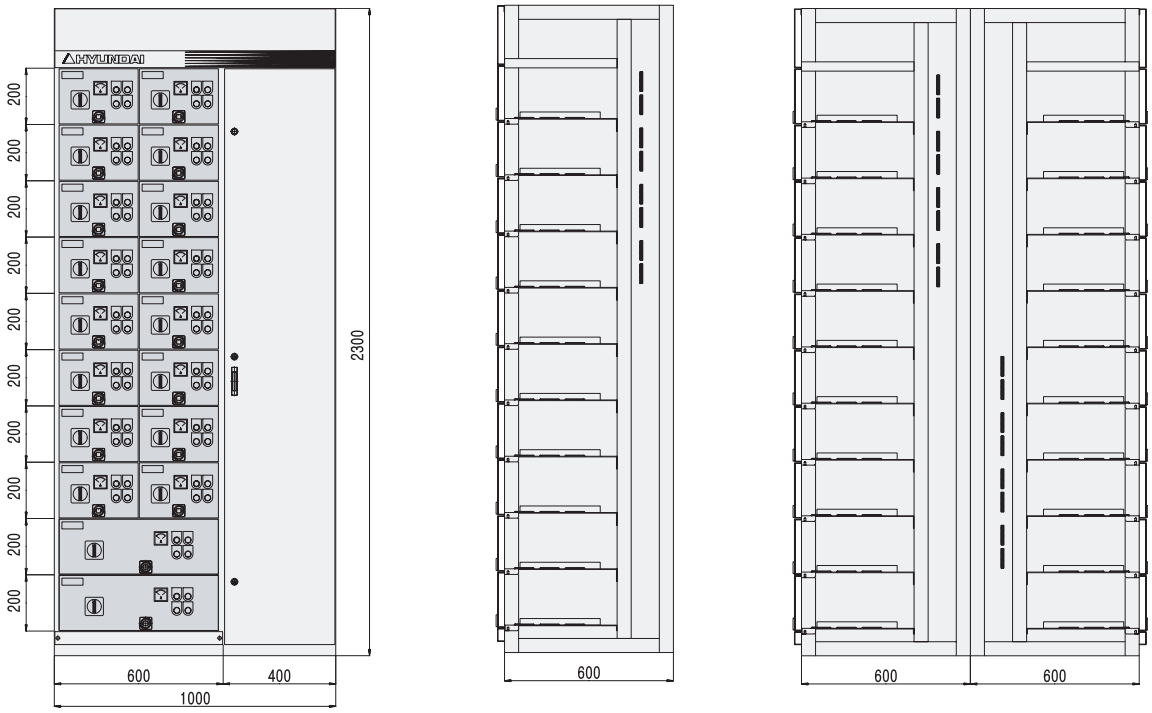
ⓐ Vertical bus bar ⓑ Control circuit ⓒ Power circuit primary plug ⓓ Power circuit secondary plug

Panel Arrangement and Dimensions

HiMCC withdrawable 1/2 module & 1 module units.

[Front Only Type] [Back to Back Type]

(unit: mm)



Space for incoming MCCB

Incoming MCCB	Space for unit (height)	Unit type
Below 100AF	1 Module (200mm)	Drawout type
Below 225AF	1 Module (200mm)	Drawout type
Below 400AF	1.5 Module (300mm)	Drawout type
Below 400AF with CT	2.0 Module (400mm)	Drawout type
Below 600AF	4 Module (800mm)	Fixed type
Below 600AF with CT	4 Module (800mm)	Fixed type

※ For incoming feeders above 600AF MCCB, please contact us.

Selection of Standard Units

380V / 415V Withdrawable Unit Design - **DIRECT**

Power (kW)	Full load current (A)		Breaking capacity (kA)	MCCB type		Magnetic contactor	Thermal relay	Cable (mm^2)	Unit size
	380V	415V		380V	415V				
0.1	0.25	0.23	25 -100	GV2-RS 03	GV2-RS 02	HiMC 9	–	6	1/2M
0.2	0.5	0.43		GV2-RS 04	GV2-RS 04				
0.37	0.93	0.85		GV2-RS 05	GV2-RS 05				
0.4	1.01	0.91		GV2-RS 06					
0.43	1.08	0.98							
0.75	1.89	1.71		GV2-RS 07	GV2-RS 06				
0.9	2.26	2.05			GV2-RS 07				
1.5	3.77	3.42		GV2-RS 08	GV2-RS 08				
2.2	5.26	4.82		GV2-RS 10	GV2-RS 10				
2.5	5.76	5.28							
3.7	8.52	11.1		GV2-RS 14	GV2-RS 14	HiMC 12			
5	11.1	12.21		GV2-RS 16	GV2-RS 16				
5.5	12.21	16.35				HiMC 18			
7.5	16.35	19.27			GV2-RS 20	HiMC 22			
9	19.27	23.55		GV2-RS 17	GV2-RS 21			10	
11	23.55	31.74		GV2-RS 18	GV2-RS 22	HiMC 32			
15	31.74	31.74		GV2-RS 23	GV2-RS 23	HiMC 50			
18.5	38.23	35.02	42	HiBH-103	HiBL-103NT	HiMC 50	HiTH 50K	16	1M
			85	HiBL-103NT					
			100	HiBX-103NT	HiBX-103NT				
22	45.47	41.64	42	HiBH-103	HiBL-103NT	HiMC 65	HiTH 90K		
			85	HiBL-103NT					
			100	HiBX-103NT	HiBX-103NT				
30	61.28	56.1	42	HiBH-103	HiBL-103NT	HiMC 80	HiTH 90K	25	
			85	HiBL-103NT					
			100	HiBX-103NT	HiBX-103NT				
37	74.72	68.45	42	HiBH-203	HiBL-203NT	HiMC 90	HiTH 90K	35	2M
			85	HiBL-203NT					
			100	HiBX-203NT	HiBX-203NT				
45	93.12	83.25	42	HiBH-203	HiBL-203NT	HiMC 130	HiTH 130K	50	
			85	HiBL-203NT					
			100	HiBX-203NT	HiBX-203NT				
55	112.54	101.75	42	HiBH-203	HiBL-203NT	HiMC 150	HiTH 220K	50	
			85	HiBL-203NT					
			100	HiBX-203NT	HiBX-203NT				
75	148.96	136.39	42	HiBH-203	HiBL-203NT	HiMC 180	HiTH 220K	35×2	
			85	HiBL-203NT					
			100	HiBX-203NT	HiBX-203NT				
90	178.75	163.67	42	HiBS-403NE	HiBS-403NE	HiMC 220	HiTH 220K	35×2	3M
			85	HiBL-403NE	HiBL-403NE				
			100	HiBX-403NE	HiBX-403NE				
95	188.68	172.76	42	HiBS-403NE	HiBS-403NE	HiMC 220	HiTH 220K	35×2	
			85	HiBL-403NE	HiBL-403NE				
			100	HiBX-403NE	HiBX-403NE				
110	218.47	200.04	42	HiBS-403NE	HiBS-403NE	HiMC 260	HiTH 300K	35×2	
			85	HiBL-403NE	HiBL-403NE				
			100	HiBX-403NE	HiBX-403NE				
125	248.26	227.32	42	HiBS-403NE	HiBS-403NE	HiMC 300	HiTH 300K	50×2	
			85	HiBL-403NE	HiBL-403NE				
			100	HiBX-403NE	HiBX-403NE				

※ For power ratings over 132kW, Y-Δ, and reactor starters, please contact us.

Selection of Standard Units

440V / 460V Withdrawable Unit Design - **DIRECT**

Power (kW)	Full load current (A)		Breaking capacity (kA)	MCCB type		Magnetic contactor	Thermal relay	Cable (mm^2)	Unit size
	440V	460V		440V	460V				
0.1	0.22	0.21	25 - 100	GV2-RS 02	GV2-RS 02	HiMC 9	-	5.5	1/2
0.2	0.43	0.42		GV2-RS 04	GV2-RS 02				
0.37	0.8	0.77		GV2-RS 05	GV2-RS 05				
0.4	0.87	0.83		GV2-RS 05					
0.43	0.93	0.89		GV2-RS 05					
0.75	1.63	1.56		GV2-RS 07	GV2-RS 06				
0.9	1.95	1.87		GV2-RS 07	GV2-RS 07				
1.5	3.26	3.11		GV2-RS 08	GV2-RS 08				
2.2	4.54	4.34		GV2-RS 10	GV2-RS 10				
2.5	4.97	4.75		GV2-RS 10					
3.7	7.36	7.04	42	GV2-RS 14	GV2-RS 14	HiMC 12	- (HiTH 22K)		1/2
			85		HiBL-103NT				
			100		HiBX-103NT				
5	9.58	9.17	42	GV2-RS 14	GV2-RS 14				
			85		HiBL-103NT				
			100		HiBX-103NT				
5.5	10.54	10.08	42	GV2-RS 16	GV2-RS 16	HiMC 18			
			85	HiBL-103NT	HiBL-103NT	HiMC 22	HiTH 22K	5.5	1
			100	HiBX-103NT	HiBX-103NT				
7.5	14.12	13.5	42	HiBL-103NT	GV2-RS 16				
			85		HiBL-103NT				
			100	HiBX-103NT	HiBX-103NT				
9	16.64	15.92	42	HiBL-103NT	HiBL-103NT			8	
			85						
			100	HiBX-103NT	HiBX-103NT				
11	20.34	19.45	42	HiBL-103NT	HiBL-103NT	HiMC 32	HiTH 40K		
			85						
			100	HiBX-103NT	HiBX-103NT				
15	27.41	26.22	42	HiBL-103NT	HiBL-103NT	HiMC 50	HiTH 50K		
			85						
			100	HiBX-103NT	HiBX-103NT				
18.5	33.02	31.58	42	HiBL-103NT	HiBL-103NT			14	
			85						
			100	HiBX-103NT	HiBX-103NT				
22	39.27	37.56	42	HiBL-103NT	HiBL-103NT	HiMC 65	HiTH 90K		
			85						
			100	HiBX-103NT	HiBX-103NT				
30	52.93	50.63	42	HiBL-103NT	HiBL-103NT	HiMC 80		22	
			85						
			100	HiBX-103NT	HiBX-103NT				
37	64.53	61.72	42	HiBL-103NT	HiBL-103NT	HiMC 90	HiTH 90K	38	2
			85						
			100	HiBX-103NT	HiBX-103NT				
45	80.42	76.92	42	HiBL-203NT	HiBL-203NT	HiMC 130	HiTH 130K	50	
			85						
			100	HiBX-203NT	HiBX-203NT				
55	97.2	92.97	42	HiBL-203NT	HiBL-203NT	HiMC 150	HiTH 220K	50	
			85						
			100	HiBX-203NT	HiBX-203NT				
75	128.64	123.05	42	HiBL-203NT	HiBL-203NT	HiMC 180		38×2	
			85						
			100	HiBX-203NT	HiBX-203NT				
90	154.37	147.66	42	HiBS-403NE	HiBS-403NE	HiMC 220	HiTH 220K	38×2	3
			85	HiBL-403NE	HiBL-403NE				
			100	HiBX-403NE	HiBX-403NE				
95	162.95	155.86	42	HiBS-403NE	HiBS-403NE	HiMC 220		38×2	
			85	HiBL-403NE	HiBL-403NE				
			100	HiBX-403NE	HiBX-403NE				
110	188.68	180.47	42	HiBS-403NE	HiBS-403NE	HiMC 260	HiTH 300K	38×2	
			85	HiBL-403NE	HiBL-403NE				
			100	HiBX-403NE	HiBX-403NE				
125	214.41	205.08	42	HiBS-403NE	HiBS-403NE	HiMC 300		50×2	
			85	HiBL-403NE	HiBL-403NE				
			100	HiBX-403NE	HiBX-403NE				

※ For power ratings over 132kW, Y-Δ, and reactor starters, please contact us.

380V / 415V / 440V / 460V Withdrawable Unit Design -**MCCB ONLY**

Power (kW)	Breaking capacity (kA)	MCCB 3P type				Magnetic contactor	Thermal relay	Cable (mm^2)	Unit size
		380V	415V	440V	460V				
MCCB 100AF	25 - 100	GV2-RS **				–	–	5.5	1/2M
	42	HiBH-103	HiBL-103NT	HiBL-103NT	HiBL-103NT			22	
	85	HiBL-103NT							
	100	HiBX-103NT	HiBX-103NT	HiBX-103NT	HiBX-103NT				
MCCB 225AF	42	HiBH-203	HiBL-203NT	HiBL-203NT	HiBL-203NT			38×2	1M
	85	HiBL-203NT							
	100	HiBX-203NT	HiBX-203NT	HiBX-203NT	HiBX-203NT				
MCCB 400AF	42	HiBS-403NE	HiBS-403NE	HiBS-403NE	HiBS-403NE			50×2	1.5M
	85	HiBL-403NE	HiBL-403NE	HiBL-403NE	HiBL-403NE				
	100	HiBX-403NE	HiBX-403NE	HiBX-403NE	HiBX-403NE				

※ For power ratings over 132kW, Y-Δ, and reactor starters, please contact us.

Test Reports

TEST REPORT 2006TS02253 1/10

CLASSIFICATION	Performance Test(II)
APPARATUS	Low-voltage switchgear & Motor control center
DESIGNATION	HiMCC
RATINGS	3 Phases 480 V 5 000 A 65 kA 1 s 60 Hz
APPLIED STANDARD	IEC 60439-1(2004. 4) & client's specification
RECEIPT No.	TRD06S02205 (October 09, 2006)
APPLICANT	Reliability Assessment & Certification Department 28-1, Seongju-Dong, Changwon-City, Kyongnam, Korea
MANUFACTURER	Hyundai Heavy Industries Co., LTD 1, Cheonha-Dong, Dong-Ku, Ulsan-City, Korea
DATE OF TESTS	November 20, 2006
DATE OF ISSUE	December 04, 2006

The tests have been carried out in accordance with the instructions of the client, based on IEC 60439-1.

The test results are presented in the records of tests with the performance of the tested apparatus and the observations made during the tests. The oscillograms are attached hereto.

The test results apply only to the tested specific samples.

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No. OF PAGES INCORPORATED: records (10), photographs (1), circuit diagrams (2), oscillograms (7), drawings & descriptions (3), attachments (0)

Test results in this report are within the scopes accredited by Korea Laboratory Accreditation Scheme, which signed the International Laboratory Accreditation Cooperation Mutual Recognition Arrangement

Prepared by: Jung, Heung-Soo — Jung , Heung-Soo

Verified by: La , Dae-Ryeol

Approved by (Technical manager): Park, Byung-Rak

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KERI Laboratories are accredited by KOLAS (Korea Laboratory Accreditation Scheme)

DF-E-21/13/02

TEST REPORT 2007TC00056 1/5

CLASSIFICATION	Performance Test(III)
APPARATUS	Low Voltage Switchgear and Motor Control Center
DESIGNATION	HiMCC(Serial no. HL060901(LV), HL060902(MCC))
RATINGS	3Φ 480V 5000A 65kA 60Hz
APPLIED STANDARD	IEC 61641(1996)
RECEIPT No.	TRD06C00582 (September 01, 2006)
APPLICANT	Reliability Assessment & Certification Department / KERI Sungju-dong 28-1, Changwon, Korea, 641-120
MANUFACTURER	Hyundai Heavy Industries Co., Ltd. 1, Jeonha-dong, Dong-Ku, Ulsan, Korea
DATE OF TESTS	December 22, 2006
DATE OF ISSUE	February 07, 2007

The tests have been carried out in accordance with the instructions of the client.

The test results are presented in the records of tests with the performance of the tested apparatus and the observations made during the tests. The oscillograms are attached hereto.

The test results apply only to the tested specific samples.

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No. OF PAGES INCORPORATED: records (5), photographs (3), circuit diagrams (2), oscillograms (3), drawings & descriptions (0), attachments (0)

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Prepared by: Choi, Ike-Sun

Verified by: Lee, Yong-Han

Approved by (Technical manager): La , Dae-Ryeol

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KERI Laboratories are accredited by KOLAS (Korea Laboratory Accreditation Scheme)

DF-36/03

Low Voltage Switchgear

Overview

HiMCC is a sheet metal system enclosure suitable for low voltage switchgear installations in commercial buildings, industrial plants and electric power generating stations.

The low voltage switchgear equipment has been evaluated in a comprehensive analysis and tested for maintainability and life expectancy.

Hyundai's in-depth knowledge of protection technology has led to the development of a comprehensive range of distribution equipment that is compact and economical.

Features

The low voltage switchgear system has proven its worth throughout the world.

It is a safe investment for the future due to its continuous development.

The high flexibility of the low voltage switchgear system can be equipped as required with standardized components and can be perfectly adapted to any application.

The various application both in electrical and mechanical design permits the optimal selection of structural design, interior arrangement, and degree of protection, according to the operating and environmental conditions.

The design and materials used for the low voltage switchgear system largely prevent the occurrence of electric arc or allows arc quenching within a short time.

Type test certificates are available. In this test, we proved the accidental arcs were limited to the places of occurrence.

The low voltage switchgear system offers the user many alternative solutions and notable advantages that convention of installations cannot provide.

Construction

- The switchger is comprised of indoor units, offering completely isolated breaker and instrument compartments
- The removable circuit breaker power element is equipped with disconnecting contacts and interlocking contacts for withdrawal
- A lifting device for the power circuit breakers can be provided

Technical Data

Electrical data	Rated frequency		50/60Hz
	Rated voltage	Rated insulation voltage	up to 1000V
		Rated operating voltage	up to 690V
	Rated current	Rated current	up to 5000A
		Rated short time withstand current	up to 1000kA/1sec
		Rated peak withstand current	up to 220kA
Mechanical characteristics	Dimensions	Height	2300mm
		Width	600/700/800/1000/1200mm
		Depth	650/800/1200/1500mm
	Degree of protection		Normal IP 4X, up to IP 54
	Surface protection	Frame	Galvanized
		Enclosure	Paint RAL-7032 (standard)
		Internal subdivision	Galvanized
Form degree			Form-4b

Low Voltage Switchgear & Control Center - HMCC

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