

Type Approval Certificate Extension

This is to certify that Certificate No. 04/10006(E1) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	Hyundai Heavy Industries Co., Ltd. Electro Electric Systems 1, Cheonha-Dong, Dong-Ku, Ulsan, 682-792, Korea
PLACE OF PRODUCTION	Hyundai Heavy Industries Co., Ltd. Electro Electric Systems 1, Cheonha-Dong, Dong-Ku, Ulsan, 682-792, Korea Hyundai Heavy Industries (China) Electric Co., Ltd. No.9 Hyundai Road, Xinba Scientific and Technologic Zone, Yangzhong, Jiangsu, 212212, China
DESCRIPTION	Magnetic Contactors and Control Relays
TYPE	HiMC, HiMX and HiMT
APPLICATION	Marine, offshore and industrial applications for use in environmental categories ENV1, ENV2 and ENV3 as defined in LR Type Approval Test Specification No. 1 -2002 where the Test Specification is satisfactory for the intended operation.
DESIGN CODE STANDARD	IEC 60947-1 (2001) IEC 60947-4-1 (2001) IEC 60947-5-1 (1997)

Certificate No.	04/10006(E2)
Issue Date	28 January 2009
Expiry Date	27 January 2014
Sheet	1 of 3


S. Nakauma
Yokohama Design Support Office
Lloyd's Register

Lloyd's Register, registered office:
71 Fenchurch Street, London EC3M 4BS

RATINGS

3 phase, 50/60Hz a.c.

Type	Operational Voltage Ue [V]	Operational Current Ie [A]	Thermal Current Ith [A]	Utilisation Category	Standard/Remarks
HiMC 9	220 to 690	10 to 7	20	AC 3	IEC 60947
HiMC 12		10 to 7	20		
HiMC 18		18 to 9	25		
HiMC 22		22 to 18	32		
HiMC 32		32 to 22	50		
HiMC 40		40 to 26	50		
HiMC 50		50 to 31	70		
HiMC 65	220 to 690	70 to 44	100	AC 3	IEC 60947
HiMC 80		80 to 52	110		
HiMC 90		90 to 60	135		
HiMC 110		110 to 65	150		
HiMC 130	220 to 1000	130 to 70	160	AC 3	IEC 60947
HiMC 150		150 to 66	200		
HiMC 180		180 to 78	230		
HiMC 220		220 to 96	260		
HiMC 260		260 to 113	300		
HiMC 300		300 to 141	350		
HiMC 400		400 to 178	450		
HiMC 500		500 to 192	550		
HiMC 630		630 to 213	750		
HiMC 800		800 to 284	900		
Aux. Circuit For HiMC type	220 to 660	6 to 2	16	AC 15	
HiMT22, 31, 40	220 to 660	10 to 2	20	AC 11	with d.c. Coil
HiMX22, 31, 40	220 to 660	10 to 2	20	AC 11	with a.c. Coil

Certificate No. 04/10006(E2)

Issue Date 28 January 2009

Expiry Date 27 January 2014

Sheet 2 of 3



S. Nakauma
Yokohama Design Support Office
Lloyd's Register

Lloyd's Register, registered office:
71 Fenchurch Street, London EC3M 4BS

Lloyd's Register, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register Group'. The Lloyd's Register Group assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register Group entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

