

Type Approval Certificate Extension


This is to certify that Certificate No. 03/10095(E1) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	LS Industrial Systems Co., Ltd.
PLACE OF PRODUCTION	1 Song Jung Dong, Hung Duk Ku, Cheong Ju City, 361-720, Korea
DESCRIPTION	Magnetic Contactors and Motor Starters
TYPE	GMC Series
APPLICATION	Marine, offshore and industrial applications for use in environmental categories ENV1, ENV2, ENV3 and ENV4 in the "General Power Distribution Zones" as defined in LR Type Approval System Test Specification No. 1-2002 where the Test Specification is satisfactory for the intended operation.
ADDITIONAL TEST	Low temperature test at -5°C for 16 hours
DESIGN CODE	IEC 60947-4-1
STANDARD	IEC 60947-5-1

Certificate No.	03/10095(E2)
Issue Date	17 December 2008
Expiry Date	16 December 2013
Sheet	1 of 2

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



Y. Hara
Yokohama Design Support Office
Lloyd's Register

RATINGS

Type	Utilisation Category	Rated Operational Current in amperes at rated operational voltage Ue								Thermal Current
		200 ~ 240V		380 ~ 440V		500 ~ 550V		690V		Ith
		Amp	kW	Amp	kW	Amp	kW	Amp	kW	Amp
GMC-100	AC3	105	30	105	55	85	55	65	55	160
GMC-125	AC3	125	37	120	60	90	60	70	60	160
GMC-150	AC3	150	45	150	75	140	90	100	90	210
GMC-180	AC3	180	55	180	90	180	110	120	110	230
GMC-220	AC3	250	75	250	132	200	132	150	132	275
GMC-300	AC3	300	90	300	160	250	160	220	200	350
GMC-400	AC3	400	125	400	220	350	225	300	250	450
GMC-600	AC3	630	190	630	330	500	330	420	330	660
GMC-800	AC3	800	220	800	440	720	500	630	500	840

Operating Coil : 500V or less, d.c. or 50/60Hz

"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register of any modification or changes to the equipment in order to obtain a valid certificate."

The attached Design Appraisal Document No. 03/10095(E2) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 03/10095(E1) to which this extension should be attached.

Certificate No. 03/10095(E2)

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Sheet 2 of 2



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