



Type Approval Certificate

Germanischer Lloyd

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. **54 404 - 07 HH**

Company **LS Industrial Systems Co., Ltd.**
1, Song Jung-dong, Hung Duk-gu
Cheong Ju, Choongbuk 361-720, Rep. of KOREA

Product Description **Manual Motor Starter**

Type **MMS-32 S, - H, - HI, MMS-63 S, - H, -HI, MMS-100 S, -H, -HI**

Environmental Category **C**

Technical Data /

Range of Application

	MMS 32	MMS 63	MMS100
Rated current at 45 °C	: 0,16 - 32 A	10 - 63 A	17 - 100 A
Rated operational voltage	: 690 V AC	1000 V AC	1000 V AC
Rated insulation voltage	: 690 V	1000 V	1000 V
Rated impulse withstand voltage Uimp	: 6 kV	8 kV	8 kV
Performance category	: A	A	A
Rated frequency	: 50/60 Hz	50/60 Hz	50/60 Hz
No. of poles	: 3	3	3

Rated short circuit capacity

Icm [kA] :	up to 220 kA
Icu [kA] :	3 kA up to 100 kA
Ics [kA] :	3 kA up to 100 kA

Adjustable thermal release(S,H)

Fixed magnetic release (S,H,HI)

Test Standard **Regulations for the Performance of Type Tests, Edition 2003**
IEC 60947-2 (2002), incl. Annex H

Documents **Test reports: KEMA 2038108.51, -.52, -.53, -.54, -.55, -.56 (2004-05-26),**
PT&T R47-1575, - 76, -77, - 78 (2007-10-08)
Catalogue Meta-MEC Manual Motor Starter 2005.08

Remarks **Detailed short circuit capacity and if necessary back up fuse according to manufactures documentation**

Valid until **2012-12-18**

Page **1 of 1**

Type Approval Symbol



File No. **I.K.01**

Hamburg, 2007-12-19

Germanischer Lloyd

i.v. w. voß
Wolfgang Voß

i.A. Reimer
Thomas Reimer

This certificate is issued on the basis of "Guidelines for the Performance of Type Approvals Part 1, Procedure".