



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. 25 972 - 05 HH

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

Product Description Moulded Case Circuit Breaker

Type ABE 53b, ABS 33b, ABE 63b

Environmental Category D

Technical Data / Range of Application
Rated operational current I_e (40°C) : 5, 10, 15, 20, 30, 40, 50, 60 A
Rated operational voltage U_e : 460 V AC
Rated insulation voltage U_i : 690 V AC
Rated impulse withstand voltage U_{imp} : 6 kV
Rated frequency : 50/60 Hz
Utilization category : A

Rated short-circuit capacity at 460 V AC :

	ABE 53b	ABS 33b	ABE 63b
I_{cm} :	7.5	7.5	7.5 kA
I_{cu} :	5	5	5 kA
I_{cs} :	5	5	5 kA

Release systems : Hydraulic -Magnetic

Test Standard Regulations for the Performance of Type Tests, Part 1, Edition 2003
IEC 60947-2 (ed.2);am1:1998

Documents Test report : KEMA 2079653.51 dated 2004-12-15
Catalogue Low Voltage Circuit Breaker 2003.11/(09) 2004.08

Remarks None

Valid until 2010-06-21

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Type Approval Symbol



File No. I.K.01

Hamburg, 2005-06-22

Germanischer Lloyd

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