



## LR Type Approval Certificate

*This is to certify that the undernoted product has been tested with satisfactory results in accordance with the relevant requirements of the LR Type Approval System.*

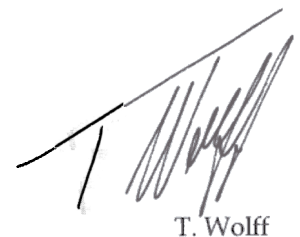
This certificate is issued to:

<b>PRODUCER</b>	ABB Schalt- und Steuerungstechnik GmbH Eppelheimer Str. 82 69123 Heidelberg Germany
<b>DESCRIPTION</b>	Circuit breaker
<b>TYPE</b>	MS450-①, MS451-①, MS495-②, MS496-② and MS497-③  ① = rated current 16 - 50 A ② = rated current 40 - 100 A ③ = rated current 16 - 90 A
<b>APPLICATION</b>	Marine, offshore and industrial applications for use in environmental categories ENV1, ENV2 and ENV3 as defined in LR Type Approval System, Test Specification Number 1 - 1996.
<b>DESIGN CODE</b>	IEC 60947-1: 1996 IEC 60947-5: 1995 IEC 60947-4-1: 1990
<b>OTHER CONDITIONS</b>	Correction factor for ambient air temperature above 60°C is to be obtained from the manufacturer's catalogue.

*"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 LR of any modification or changes to the equipment in order to obtain a valid certificate."*

*The Design Appraisal Document No. HPC/HEC 3732-00 and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

<b>Certificate No.</b>	00/20066
<b>Issue Date</b>	06 November 2000
<b>Expiry Date</b>	08 August 2003
<b>Sheet</b>	1 of 1



T. Wolff



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