




# Type Approval Certificate

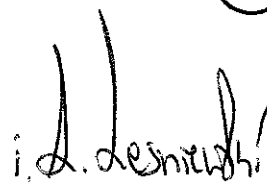
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This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No.	25 842 - 05 HH
Company	ABB STOTZ-KONTAKT GmbH Eppelheimer Straße 82 D-69123 Heidelberg
Product Description	Motor Protection Circuit Breaker with additional modules
Type	MS 116-xxx HK1-xx, HKF1-11, SK1-xx, AA1, UA1
Environmental Category	C, EMC1
Technical Data / Range of Application	Motor Protection Circuit Breaker: MS 116-xxx (xxx: operational current range 0.16 - 16.0 A) Rated operational voltage Ue: up to 690V AC Rated impulse withstand voltage Uimp: 6kV Rated frequency: 50/60Hz Degree of Protection: IP20 / Utilization category: AC-3 Short circuit making/breaking capacity and back-up fuses, see 'Technical catalog' Auxiliary Switch Modules: HKF1-11, HK1-xx: utilization category: AC-15/DC-13 Signal Contact Modules: SK1-xx: utilization category AC-15/DC-13 Current Working Tripping Modules: AA1 Undervoltage Tripping Modules: UA1 (only modules manufactured after week 28 of year 2003, see indication on the module in the format YWWY)
Test Standard	Guidelines for the Performance of Type Approvals Part 2, Edition 2003 IEC 60947-4-1:2000, 60947-5-1:1997
Documents	Test reports: PAC 90/02; KEMA 2024892.50; KEMA 2024892.52 Technical catalog: 2CDC001002C0101
Remarks	None
Valid until	2011-02-28
Page	1 of 1
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Type Approval Symbol