



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. **4746203 HH**

Company **ABB SACE S.p.A**
Via Baioni 35
24123 Bergamo, ITALY

Product Description **Moulded Case Circuit Breaker**

Type **Tmax T4 250/320A S/H/L/V**

Environmental Category **C**

Technical Data /
Range of Application **Conventional thermal current I_{th} (40°C): 250/320A**
Rated operational voltage U_e: 690V AC
Rated impulse withstand voltage U_{imp}: 8kV
Rated insulation voltage U_i: 1000V
Utilization category: A

Rated short-circuit making and breaking capacity:

| | S | H | L | V |
|---------------------------------|----------|----------|----------|----------|
| I _{cu} 440/ 690 V [kA] | 40/25 | 65/40 | 100/70 | 180/80 |
| I _{cs} 440/690 V [kA] | 40/25 | 65/40 | 100/70 | 180/80 |
| I _{cm} 440/690 V [kA] | 84/52.5 | 143/84 | 220/154 | 396/176 |

Releases: TMD 20A up to 50A; TMA 80A up to 320A; MA 10A up to 200A;
PR221DS 100A up to 320A; PR222DS 100A up to 320A, PR222MP, PR223EF-DS
(Communication port for monitoring purposes only)
Derating for plug-in version to be observed.

Test Standard **Guidelines fo the Performance of Type Tests, Part 1, Edition 2003, IEC 60947-2**
(1995), Corrigendum (1997), 60947-1:1997, 60947-2:2003 Annex H

Documents **Test report : LOVAG ACAE 03.046, 03.048, 03.081, 03.088, 03.090-097, 03.116, 03.117**
03.144-146, SE39062-39065, SE39137, SE37064A1, SE37555A1
LBRP 5351, MM57-03 to MM60-03, EMC 21160, EMC 21221, 21369, 80SE00622/

Remarks **None**

Valid until **2016-11-21**

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Type Approval Symbol



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

Hamburg, 2011-11-22

Germanischer Lloyd

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This certificate is issued on the basis of "Regulations for the Performance of Type Tests, Part 0, Procedure".