## Type Approval Certificate



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.

13 682 - 99 HH

Company

Danfoss A/S Nordborgvej 81

6430 Nordborg, DENMARK

**Product Description** 

**Temperature Sensor** 

Type

MBT 5116 Slim-line

**Environmental Category** 

D, H, EMC1

Technical Data /
Range of Application

Sensor element: PT 100, insert exchangeable

Connection: 2- or 3- wire connection Cable gland: PG 11 or PG 13.5

Temperature range: -50 °C up to 600 °C Accuracy: class B according to EN 60751 Insertion length: 80 mm up to 300 mm

Process connection: G 1/2A, G 3/4A, M 24x2 or M 33x2 Material sensor and protection tube: 1.4571 (AISI 316 Ti) Response time: z0.5 = 30 s, z0.9 = 95 s (water, 0.2 m/s) z0.5 = 150 s, z0.9 = 450 s (air, 1 m/s)

Degree of protection: IP 65

\*Env. Cat. 'H': vibration test: 5 Hz - 25 Hz amplitude = 3.3 mm

25 Hz - 2000 Hz, acceleration = 15 g

**Test Standard** 

Guidelines for the Performance of Type Approvals, Chapter 2 - Edition 2003

**Documents** 

Test reports: 980372, 980372-1, 980009b,c, 980030a

Technical data: IK.23.N2.02, AC-TES/SP/jw

Remarks

None

Valid until

2014-04-07

Page

1 of 1

100

1000

File No. I.D.02

Hamburg, 2009-04-08

Type Approval Symbol

GL

Germanischer Lloyd

Heinz Tohahen

Dariusz Lesniewski

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