



Physical - Technical Testing Institute, s.p.

National Authority No. 210, EU Notified body No.1026

Testing Laboratory No. 1019, accredited by CAI

TEST REPORT No.: 13.0352 - 6

Test: Degree of protection - IP 66, IP 67

Applicant: LIMATHERM Components Sp.z o.o
Želazna 5, 41-506 Chorzów, Poland

Producer: LIMATHERM Components Sp.z o.o
Želazna 5, 41-506 Chorzów, Poland

Tested Subject: Connection head, Type: A

Design of Sample: IP 66, IP 67

Sample Number: 18429

Certificate Number: -

Delivery of Sample: 9.7.2013

Testing Method: EN 60529:1991+A1:2000, clause 13.4, clause 14.2.6, 14.2.7

Deviation of the Test Method: -

Responsible person: Ing. Tomáš Štula, Ph.D.
Head of Testing Laboratory

Date of issue: 3.9.2013

Elaborated by: Jan Šviderský

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Number of annexes: -

Test results mentioned in this test report relate to the items tested only and not replace any other documents.
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Test Sample: Connection head, Type: MA, without nameplate
 Head body and cover material: Aluminum
 Sealing material: Silicone rubber

Testing Procedure:

EN 60529:1991+A1:2000, clause 13.4, clause 14.2.6, 14.2.7
 Required degree of protection: **IP 66, IP 67**
 Enclosure Category: 1
 Sample operating mode: at rest

Test Conditions: $T_a = 20,8^{\circ}\text{C}$

Test Instruments and Apparatus:

- | | |
|--|------------|
| 1. Digital thermometer THERM 2280-2 | Reg.No.160 |
| 2. Dust chamber | Reg.No.071 |
| 3. Measuring tape | Reg.No.231 |
| 4. Water nozzle, $\varnothing 12,5\text{mm}$ | Reg.No.124 |
| 5. Water tank | |

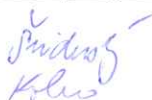
Test Results:

Test apparatus for degree:	IP 6X	Dust Chamber
Equipment free volume app:	0,14	dm^3
Set under pressure:	2	kPa
Air exchange during the test:	3,0	dm^3
Test Duration:	8	Hour
Test Result:	Any dust didn't enter into sample.	

Test apparatus for degree:	IP X6	Nozzle with inside diameter: 12,5 mm Water flow: 100 l/min Distance: 3m Test duration: 3min.
Water temperature:	17,5	$^{\circ}\text{C}$
Test Result:	Any water didn't enter in quantity deteriorating sample degree of protection.	

Test apparatus for degree:	IP X7	Water tank Sample dive into water. Lowest point of Head: 1000 mm under water level Test duration: 30 min.
Water temperature:	17,2	$^{\circ}\text{C}$
Test Result:	Any water didn't enter in quantity deteriorating sample degree of protection.	

Tested by: Jan Šviderský
 Radim Kolář



Date of testing: 16., 20., 26.8.2013

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