

**TEST REPORT**  
**EN 60529****DEGREES OF PROTECTION PROVIDED BY ENCLOSURES (IP CODE)**

Report reference No. .... : 350262700

Compiled by (+ signature)..... : Ivan Marconi



Approved by (+ signature)..... : Luca Casiraghi



Date of issue ..... : March 30, 2012

Contents ..... : 10 pages

**Testing laboratory**

Name..... : DEKRA Testing and Certification S.r.l.

Address ..... : Via Martiri della Liberazione, 12  
I-23875 Osnago (LC)

Testing location ..... : As above

**Client**

Name..... : Quadritalia S.r.l.

Address ..... : Via E.Mattei 6/10  
..... : 36040 Brendola (VI) Italy**Test specification**

Standard..... : EN 60529:1991+ A1:2000

Test procedure ..... : N/A

Procedure deviation ..... : N/A

Non-standard method..... : —

Date of performance of the tests..... : March 29, 2012

**Test item**

Description ..... : Electrical Cabinet

Trademark..... : Quadritalia

Model and/or type reference ..... : Series OK dimensions 1800 x 600 x 400

Manufacturer ..... : Quadritalia

**Test case verdicts**

Test case does not apply to the test object.....: N/A

Test item does meet the requirement.....: P(Pass)

Test item does not meet the requirement.....: F(Fail)

.....:

**Testing**

Date of receipt of test item .....: March, 2012

Date(s) of performance of test.....: March, 2012

**General remarks****This report consists of:**

**Requirements:** 3 pages

**Test results:** 2 pages

**Photographs:** 2 pages

**Test and measuring equipment list:** 1 page

This test report shall not be reproduced except in full without the written approval of the testing laboratory.

The test results presented in this report relate only to the item tested.

Throughout this report a comma is used as the decimal separator.

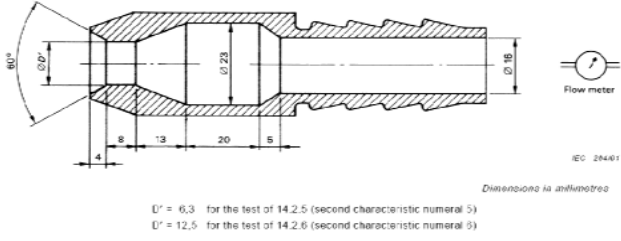
The tests have been carried out at the above testing location

NOTE: The results of the IP65 tests performed on the electrical cabinet series OK measuring 1800 x 600 x 400 are positive, the protection degree IP55 has also to be considered satisfied.

**REQUIREMENTS**

§	Requirements	Remark - Note
11.1	<b>General requirements for tests</b>	
	Ambient Temperature $T_a$	$10 \div 30 \text{ }^{\circ}\text{C}$
	Ambient Relative humidity $U_r$	$25 \div 75 \%$
	Ambient Air pressure $P$	$860 \div 1060 \text{ mbar}$
11.2	<b>Tests sample</b>	
	Samples in a clean and new condition, with all parts in place and mounted in the manner stated by the manufacturer.	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
	Conditions of mounting	Horizontal/Vertical position
	Pre-conditioning	N/A
	Appliance energised	N/A

§	<b>Dust Test</b>	
13.4	Type of talcum powder (dust)	Supplied by Az.Prodotti Chimici e Derivati Type HM4 Dimension 20-40 µm
	Complete equipment	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
	N° of samples tested	1
	Positioning	Horizontal position
	Pre-conditioning	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
	Energised	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
13.6.1	<b>First characteristic numeral 6</b>	
	Test	Duration test 8 hours
13.6.2	Acceptance conditions	No deposit of dust inside the enclosure

§	<b>Water Test</b>	
14.2.5	<b>Second characteristic numeral 5</b>	
	Test device	 <p>Figure 6 – Test device to verify protection against water jets (hose nozzle)</p>
	Device under test position	Vertical position
	Rotation speed of turntable	1 r/min
	Water flow rate	12,5 l/min
	Distance from nozzle to enclosure surface	2,5 m
	Test duration	3 min
	Water temperature	+/- 5 K from specimen temperature
	Internal diameter of the nozzle	6,3 mm
14.3	Acceptance condition	No accumulation of water in the equipment; such that a) operation or safety is impaired; b)safety distances are reduced; c) water is on live parts

**TEST RESULTS****Dust Test**

Model and/or type reference.....: Series OK,electrical cabinet with dimension 1800 x 600 x 400  
Testing location .....: DEKRA Testing and Certification S.r.l.  
Date 29/03/2012

*First Numeral:*    ☐ 1    ☐ 2    ☐ 3    ☐ 4    ☐ 5    ☒ 6

**CONDITIONS DURING TEST**

Ambient temperature	24,5 °C	Test means	Dust Chamber
Depression (max 2 kPa)	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Duration of test	8 Hours

<b>Remark</b>	<b>Verdict</b>
No ingress of dust inside the enclosure	Pass

**Water Test**

Model and/or type reference..... :	Series,electrical cabinet with dimension 1800 x 600 x 400
Testing location..... :	DEKRA Testing and Certification S.r.l.
Date	28/03/2012

**Second Numeral:**    ☐ 1    ☐ 2    ☐ 3    ☐ 4    ☒ 5    ☐ 6

**CONDITIONS DURING TEST**

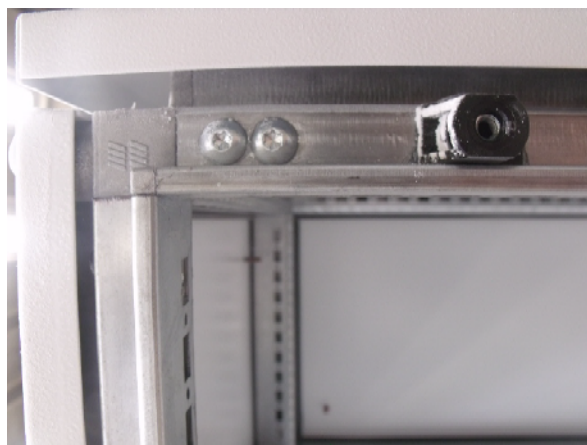
Ambient temperature	24,5 °C	Test means	Water test
		Duration of test	3 min

<b>Remark</b>	<b>Verdict</b>
No ingress of water inside the enclosure	Pass

***PHOTOGRAPHS***







Kema Ref.	Type	Manufacturer	Model	Serial Number	Calibration (mm/yy)		Remarks
					Last date	Due date	
AT 0058	Dust Chamber	Galbusera	Art.03.01	AT 0058	01/12	01/13	
AT 0429	Chrono meter	Oregon Scientific	SL928M	AT 0429	03/12	03/13	
AT 0050	Box for IPX1 - IPX6	Galbusera	Art. 03.39	AT 0050	01/12	01/13	
AT 0052	Hose nozzle 6.3 mm IPX5	Galbusera	Art. 03.22	AT 0052	02/12	02/15	
ST 0508	Riga graduata 1 m	SEB	---	---	11/11	11/14	