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TESTLA

Elektrik Laboratuvarları Tic. Ltd. Şti.

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TEST REPORT



AB-0386-T

1902.14.02/00

11.04.2019

Client Name/Address	IP ENCLOSURES PT ACN: 168 921 319 AE 4556 Australia	Y. LTD. BN: 17 168 921 319 8 Conar	a Rd, Kunda Park QLD
Name and Identity of Test Item	1200 x 800 x 300 mm Wall Mounted IP66 Test Enclosure		
Order No.	1902.14	Sample Acceptance Date	25.03.2019
Num. Of Pages of The Report	7 + 1 page of annex 8 pages in total	Test Date(s)	26.03.2019-08.04.2019
Test Standard(s)	IEC 60529: 04.03.1997 Degrees of protection provided by enclosures (IP code) (For electrical equipments)		
Test Result(s)	POSITIVE / Details, are given on the following pages which are part of this report.		

Remarks

The test results relate only to the items tested.

Tests marked (#) in this test report are not included in the TÜRKAK accreditation schedule for this laboratory.

TESTLA Elektrik Laboratuvarları accredited by TÜRKAK under registration number AB-0386-T for IEC ISO/IEC 17025:2012 as test laboratory.

Turkish Accreditation Agency (TURKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the recognition of test reports.

The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.

Seal	Report Date	Person in Charge of Test	Laboratory Manager
WIRIK LABORATURAR LA PRINCIPAL PRINC	11.04.2019	Mehmet ŞUMNU	Dep. Lab. Manager Erol APAYDIN

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1. Participants of Tests

Sequence No.	Name, Last Name	Position	Company
1.	Caner Eren	Head of Laboratory	
2.	Mehmet Şumnu	Laboratory Chief / Test Personnel	TESTLA
3.	Mehmet Kalyoncu	Test Personnel	TESTEA
4.	Selçuk Aygün	Prepared By	

2. Performed Test

Sequence No.	Test name	IEC 60529 Clause	Result
1.	Dust test for first characteristic numeral 6	13.4	P
2.	Test for second characteristic numeral 6 with the 12,5 mm nozzle	14.2.6	Р

The test details are given in the following pages (Chapter 5).

3. General Ambient Conditions

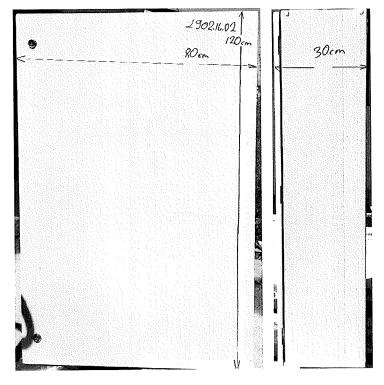
Ambient temperature (°C)	Ambient Humidity (RH%)	Atmospheric pressure (mbar)
18,1-20,3	37-48	1001-1005

Laboratory Indoor ambient conditions are climatically controlled and registered. Special ambient conditions are specified separately in relevant test.

4. Rated Values of Test Item

Manufacturer	ELTE PANO
Туре	1200 x 800 x 300 mm Wall Mounted IP66 Test Enclosure
Degree of protection (IP)	IP66

Photograph of the test sample







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5. Test Results

Explanations on the presentation and reporting of results.

This report applies only to samples for which tests have been carried out.

Tests marked in this test report (#) are not within the scope of accreditation obtained from TÜRKAK.

Since the test sample was provided by the customer, the contribution resulting from sampling was not included in the measurement uncertainty. The test sample was tested as received.

In line with customer requests,

Tests according to IEC 60529 standard was shown as follows in the table in the column of the test standard, as "IEC 60529"

	IEC 60529		
Clause	Required-Requirement	Measured-Observed	Result

in this table,

1. Column: Clause

The clause number of the standard specified in the top line. (The clauses of the test standard cited to the other standards are specified under the Requirement-Necessity section-column)

2. Column: Required -Requirement

Structural requirements-conditions-guidelines for the described tests to determine the suitability of the sample described in the relevant standard clause and the property defined in the relevant standard clause of this sample.

3. Column: Measured-Observed

The results of measurements and observations (if any, are made in the NOTES section of this section and / or in the last-bottom section of the relevant test page, if the customer requests, technical or other reasons are omitted)

4. Column: Result

Display of decisions in Possible Tests Results:

Non-applicable for the sample
 Sample meets the requirements
 Sample does not meet the requirements
 Given information and topics
 NA (Not Apply)
 (Pass) (if any) *
 (Fail) (if any) *
 Out of Assessment

It is signed as above.

(*) Situations in which the "passed" / "failed" evaluation can not be made with regard to the tests made:

- Deviations, additions and removals from standards (to affect to the results positively) related with customer request or other situations.
- The possibility that the numerical results obtained from the sample in the tests are positive / negative when the measurement uncertainties of the relevant test-device participate in the calculation (In such cases the measurement uncertainty values of the relevant tests are specified in the report)
- Absence of declaration values (necessary for evaluation of the suitability of the results) of the samples in relation to the experiments performed.
- By the nature of the Test being undertaken there is no limit or criterion for assessing compliance (the relevant test-product standard or the customer's pre-determined) of the results obtained to be positive or negative.



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IEC 60529

	120 00020		
Clause	Required-Requirement	Measured-Observed	Result

11	General requirements for tests			
11.1	Atmospheric conditions for water or dust tests		K NEW AND ADDRESS OF THE PARTY	
	Unless otherwise specified in the relevant product standard, Temperature range: 15 °C-35 °C Relative humidity: %25-%75 Air pressure: 860 mbar-1060 mbar	Temperature= 18,9 °C Relative humidity= 38 RH% Air pressure= 1001 mbar	100 100	
13.4	Dust test for first characteristic numeral 6			
	Declared IP= IP66 Category 1		905. Erly	
	Category 1 Enclosures			
	The enclosure under test is supported inside the test chamber and the pressure inside the enclosure is maintained below the surrounding atmospheric pressure by a vacuum pump. The suction connection shall be made to a hole specially provided for this test. If not otherwise specified in the relevant product standard; this hole shall be in the vicinity of the vulnerable parts.	Vacuuming connections= Yes	844 SS	
	The object of the test is to draw into the enclosure, by means of depression, a volume of air 80 times the volume of the sample enclosure tested without exceeding the extraction rate of 60 volumes per hour.	Enclosure Volume= 0,288 m³ Vacuumed volume= 23,04 V	ette 600	
	in no event shall the depression exceed 2 kPa (20 mbar) on the manometer shown in figure 2.	Pressure of manometer= 400 mbar	es as	
	If an extraction rate of 40 to 60 volumes per hour is obtained the duration of the test is 2 h.	Test duration= 120 min	item deb	
	If, with a maximum depression of 2 kPa (20 mbar), the extraction rate is less than 40 volumes per hour, the test is continued until 80 volumes have been drawn through, or a period of 8 h has elapsed.		NA	
13.6.2	Acceptance conditions for first characteristic numeral 6			
	The protection is satisfactory if no deposit of dust is observable inside the enclosure at the end of the test.	No dust ingress.	Р	

Notes:

Sample, against dust meets the requirements specified in Clause 13.6.2 of IEC 60529 for Protection Degree IP6X, which is indicated by the first characteristic numeral.



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IEC 60529

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- 1	Clause	Required-Requirement	Nieasureu-Observeu	1163uit	
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14	Tests for protection against water indicated by the second characteristic numeral		
14.2	Test conditions		
	During the tests for IPXI to IPX6 the water temperature should not differ by more than 5 K from the temperature of the specimen under test. If the water temperature is more than 5 K below	Water temperature= 14,7 °C Equipment temperature= 17,9 °C Difference (K)= 3,2 K	404 NO
14.2.6	Test for second characteristic numeral 6 with the 12,5 mm r	ozzle	
	The test is made by spraying the enclosure from all practicable directions with a stream of water from a standard test nozzle as shown in figure 6. The conditions to be observed are as follows: - internal diameter of the nozzle: 12,5 mm - delivery rate: 100 l/min ± 5 %; - test duration per square metre of enclosure surface area likely to be sprayed: 1 min; - minimum test duration: 3 min; - distance from nozzle to enclosure surface: between 2,5 m and 3 m.	Delivery rate= 100 l/min Enclosure surface area = 2,88 m² Test duration= 3 min Distance from nozzle to enclosure surface= 2,5-3 m	
14.3	Acceptance conditions (Water)		
	After testing in accordance with the appropriate requirements of 14 .2.1 to 14.2.8 the enclosure shall be inspected for ingress of water. it is the responsibility of the relevant technical committee to specify the amount of water which may be allowed to enter the enclosure and the details of a dielectric strength test, if any. in general, if any water has entered, it shall not: - be sufficient to interfere with the correct operation of the equipmer.t or impair safety; - deposit on insulation parts where it could lead .to tracking along the creepage distances; - reach live parts or windings not designed to operate when wet; - accumulate near the cable end or enter the cable if any. If the enclosure is provided with drain-holes, it should be proved by inspection that any water which enters does not accumulate and that it drains away without doing, any harm to the equipment.	No water ingress.	Р

Notes:

Sample, against water meets the requirements specified in Clause 14.3 of IEC 60529 for Protection Degree IPX6, which is indicated by the second characteristic numeral.

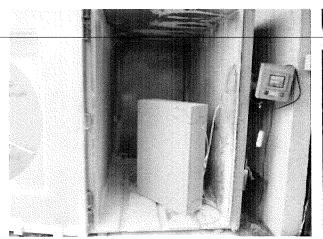
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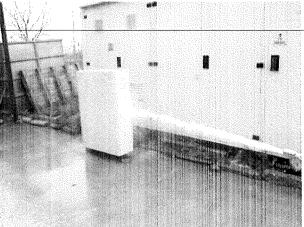
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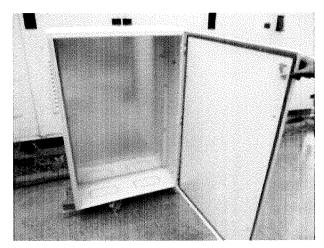


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6. Test Assembly and Test Item Photographs







7. List of Annexes

- 1 page technical document.

END OF REPORT



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