08/EK1/1/6223954-1001-4

Mr. Javier Trillo, Inspector ECA SL, Group Bureau Veritas, Inspection and Auditing Entity certifies that the enclosures listed below have met the requirements of the standard UNE-EN ISO 9001:2008.

CERTIFIES:

That at the request of the representative of the Company. "SCHNEIDER ELECTRIC INDUSTRIES S.A.S" Ms. Nuria Bas (Project Quality Leader) and Bureau Veritas as third party certification, carried out the inspection of the tests described below on the model enclosures PHD – NSYPHDT553 (538x500x320mm), NSYPHDZT1274P (1343x750x420mm), NSYPHDZT15126P (1593x1250x620mm) and NSYPHDZT2074P (2093x750x420mm)

In accordance with the requirements of the IEC 61969-3 : 2011, the enclosures THALASSA NSYPHD have obtained **SATISFACTORY** results with the documentation submitted to the inspector and based on external inspection external inspection that cannot detect hidden failures.

Standard specifications IEC 61969-3 : 2011

All the tests have been conducted according to the Class 1, except in those cases where specifically instructed another class.

Point 5.2 of Standard. CLIMATIC TESTS

Table 1 – Climatic conditions for environmental classes 1 and 2

	Environmental parameters	Test severity		Duration	IEC method
		Class 1	Class 2		
a	Low air temperature	-45 °C	-65 °C	16 h	60068-2-1; A
b	High air temperature	80 °C	90 °C	16 h	60068-2-2: B
c	Damp heat	30 °C, 93 %	30 °C, 93 %	96 h	60068-2-78: Cb
d	Rate of change of temperature	-50 °C to + 23 °C 1 °C/min	-50 °C to + 23 °C 1 °C/min	2 cycles	60068-2-14: Nb
e	Solar radiation	1 120 W/m^2	1 120 W/m^2	72 h/ 40 °C	60068-2-5 Sa
f	Condensation	40 °C 90 % to 100 % RH	40 °C 90 % to 100 % RH	96 h	60068-2-30: Db
g	Precipitation (rain, snow, hail, dust, etc.)	IP 54	IP 55	-	60529
h	Movement of the surrounding air	50 m/s	60 m/s	-	-
i	Formation of ice and frost	Yes	Yes	-	-
j	Ultraviolet degradation test	Yes	Yes	-	ISO 4892-2
NOTE For comparable conditions the International Standard Air, in accordance to ISO 2533 (15 °C at 1 013, 25 hPa) shall be used.					

Climatic tests, **SATISFACTORIES**

The point g has realized according to IP55 like class 2.

Point 5.3 of Standard. BILOGICAL TESTS

Table 2 – Biological tests

	Environmental parameters	Test severity		Purpose	IEC method
		Class 1	Class 2		
a	Flora: Presence of mould, fungus, etc.	Yes	Yes	To check the material for resistance	60068-2-10
b	Fauna: Presence of rodents and others harmful to the equipment	Yes, but without termites	Yes, but with termites		

Biological test. **SATISFACTORY**

Point 5.4 of Standard. TESTS OF RESISTANCE AGAINST CHEMICALLY ACTIVE SUBSTANCES.

Table 3 – Tests of resistance against chemically active substances

(Similar to IEC 60721-3-4, Class 4C2)

	Environmental parameters	Test severity		Duration	IEC method
		Class 1 Mean value	Class 2 Maximum value		
a	Salts: Sea and road salt mist	Yes, at 35 °C,5 % NaCl		4 days	60068-2-11; Ka
b	Sulphur dioxide [a]	0,3 mg/m³ 0,11 cm³ /m³	1,0 mg/m³ 0,37 cm³ /m³	10 days	60068-2-60; Ke
c	Hydrogen sulphide [a]	0,1 mg/m³ 0,071 cm³ /m³	0,5 mg/m³ 0,36 cm³ /m³		
d	Chlorine [a]	0,1 mg/m³ 0,034 cm³ /m	0,3 mg/m³ 0,1 cm³ /m³		
e	Nitrogen oxides [a]	0,5 mg/m³ 0,26 cm³ /m³	1,0 mg/m³ 0,52 cm³ /m³		
[a] The tests may be performed by a four component mixture of these gases. Tests of Table 3 may be combined with tests of Table 1.					

Test of resistance against chemically active substance **SATISFACTORY**

Point 5.5 of Standard. TESTS OF RESISTANCE AGAINST MECHANICALLY ACTIVE SUBSTANCES

Table 4 – Tests of resistance against mechanically active substances

	Environmental parameters	Test severity Classes 1 and 2	IEC method
a	Sand	IP 50 (see note)	60529
b	Dust (suspension)		
c	Dust (sedimentation)		
NOTE No measurable dust shall have entered the enclosure (this assessment is more severe than IEC 60529).			

Testing of mechanical resistance compared to active substances **SATISFACTORY**

(Test covered under section 5.2 point g, IP55 protection.)

Point 6.3 of Standard. LIFTING AND STIFFNESS TEST

Lifting and stiffness tests **SATISFACTORY**

Point 7.1 of Standard. SAFETY ASPECTS

Table 6 – Safety aspects			
Requirement		**Test specification**	
Earth bonding	The responsibility of the vendor is to provide sufficient conductivity between different parts of the enclosure and means for the earth bonding of equipment IEC 61140	Using IEC 60950 and IEC 61439-5 for equipped enclosure IEC 61010/60825	**SATISFACTORY**
Lightning strike	To be observed in the total "Earth bonding" concept	IEC 62305-4	**N.A.**
Mechanical safety	IK-Code according to IEC 62262	For testing IEC 60068-2-75	**SATISFACTORY**
Vandalism	Requirements shall be part of the vendor specification	Tests may be part of the vendor specification	**SATISFACTORY**
Warning labels	General warning, caution, risk of danger Caution, risk of life Caution, risk of electric shock Caution, hot surface	ISO 3864, B.3.1 ISO 3864, B.3.2 ISO 3864, B.3.6 IEC 60417	**SATISFACTORY**
Security, vandalism protection	Requirements for the resistance of the enclosure and the locking devices against unauthorised access	Tests may be part of the user specifications	**SATISFACTORY**
Flammability	Material properties may be specified by user	IEC 60695-11-10	**SATISFACTORY**

Point 7.2 of Standard. LOCKING DEVICES

Locking devices **SATISFACTORY**

Point 7.3 of Standard. VANDALISM RESISTANCE

Vandalism resistance **SATISFACTORY**

The enclosures PHD to have more of an accessory anti vandalism NSYBGN. ..HD certified according to standard UNE-EN 1627:2011 / UNE-EN 1630:2011.

En: Barcelona
Fecha: 23/02/2015

Inspector:
Javier Trillo

Supervisado por:
Ignasi Espadaler
PC Manager Barcelona