

Test Report

Nº B24-17-AH-02E



Degree of protection test IPX8

TEST SAMPLE	Painted steel and stainless steel enclosures
MODEL	GEO MVCB108040/68
REQUESTED BY	Delvalle Global Solutions, S.L.U.
MANUFACTURER	Delvalle Global Solutions, S.L.U.
STANDARD	C/ Paseo el Prao.6 (01320) OYON – ALAVA - ESPAÑA
RECEPTION DATE	IEC 62208:2011
TEST DATE	21 st - 28 th March 2017
ISSUE DATE	12 nd April 2017

Test Chief	Head of Electrical Equipment Laboratory
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* The present report refers only and exclusively to the sample tested and at the moment and conditions in which the measurements were made.
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1. IDENTIFICATION AND CHARACTERISTICS OF TEST SAMPLE

GEO cabinets (range entire of manufacturing)

From the detailed study of the range of manufacturing Tecnalía has selected the sample that has considered representative of this range.

Tested reference: GEO MVCB108040/68

The results obtained on these samples are considered applicable to all the references that make up each range and are collected below.

CABINETS GEO

	altura/ height (A)	anchura/ width (B)	profundidad / depth (C)	cierres en A/ locks in A	cierres en B/ locks in B	cierres totales / total locks
MVCB909080/68	90	90	80	2	0	4
MVCB149080/68	140	90	80	2	0	4
MVCB209080/68	200	90	80	2	0	4
MVCB269012/68	260	90	120	3	0	6
MVCB101612/68	100	160	120	2	0	4
MVCB161612/68	160	160	120	2	0	4
MVCB202012/68	200	200	120	2	0	4
MVCB202515/68	200	250	150	2	1	6
MVCB252520/68	250	250	200	2	1	6
MVCB203020/68	200	300	200	2	1	6
MVCB303020/68	300	300	200	3	1	8
MVCB304030/68	300	400	300	3	1	8
MVCB404030/68	400	400	300	3	1	8
MVCB604035/68	600	400	350	4	1	10
MVCB606040/68	600	600	400	4	2	12
MVCB806040/68	800	600	400	5	2	12
MVCB808040/68	800	800	400	5	3	16
MVCB108040/68	1000	800	400	5	3	16
MVCB101040/68	1000	1000	400	5	4	18

2. TEST FACILITIES ADDRESS

The test has been performed in the applicant facilities.

3. TESTS PERFORMED. STANDARD

Tests for degree of protection IPX8 according to IEC 62208:2011 “Empty enclosures for low-voltage switchgear and controlgear assemblies. General requirements”.

A calculation of uncertainties for all measurements carried out is available.

4. PROTECTION AGAINST DETRIMENTAL ENTRY OF WATER (IPX8)

Unless there is a relevant product standard, the test conditions are subject to agreement between manufacturer and user, but they shall be more severe than those prescribed in 14.2.7 and they shall take account of the condition that the enclosure will be continuously immersed in actual use.

- a) The lowest point of enclosures with a height less than 850 mm is located 1 000 mm below the surface of the water;
- b) The highest point of enclosures with a height equal to or greater than 850 mm is located 150 mm below the surface of the water;
- c) The minimum duration of the test is 30 min;
- d) The water temperature does not differ from that of the equipment by more than 5 K. However, a modified requirement may be specified in the relevant product standard if the tests are to be made when the equipment is energized and/or its parts in motion.

Ambient conditions: 16 °C to 19 °C – 33 % to 40 % HR – 101 to 102.3 kPa.

Water temperature: 16 °C to 19 °C Sample temperature: 16 °C to 19 °C

Duration of test requested by manufacturer: 7 days

RESULT. **CORRECT.** No water entry is observed inside the sample.