

[1]

EU-TYPE EXAMINATION CERTIFICATE

[2] Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014

[3] EU-Type Examination Certificate Number: **DNV 25 ATEX 27171 U** **Issue 0**

[4] Component: **Ex Empty Enclosure**
Type: MM EE Series

[5] Manufacturer: **METALMECH ENGINEERING**

[6] Address: **Plot No. 4246, GIDC, Dared, Phase - III, Road No. E, Jamnagar, Gujarat 361 004, India**

[7] This component and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] DNV Product Assurance AS, notified body number 2460, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in confidential reports listed in item 16.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with: **EN IEC 60079-0:2018, EN IEC 60079-7:2015+A1:2018 and EN 60079-31:2014**

Where additional criteria beyond those given here have been used, they are listed at item 18 in the Schedule.

[10] The sign "U" placed behind the certificate number indicates that this certificate should not be confused with certificates issued for equipment or protective systems. This partial certification may be used as a basis for certification of an equipment or protective systems. "Schedule of limitations" is listed under item 17 of this certificate.

[11] This EU-TYPE EXAMINATION CERTIFICATE relates only to the technical design of the specified component in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this component. These are not covered by this certificate.

[12] The marking of the component shall include the following:

 **II 2 G D** **Ex eb IIC Gb**
Ex tb IIIC Db

Date of issue:
2026-03-19



Asle Kaastad
For DNV Product Assurance AS
The Certificate has been digitally signed.



[13]

Schedule

[14] **EU-Type Examination Certificate No:**

DNV 25 ATEX 27171 U

Issue 0

[15] **Description of Component**

Ex Empty Enclosure, type: MM EE Series is a range of Ex component enclosures that are manufactured in painted mild steel or stainless steel SS304/304L/SS316/SS316L. The enclosures consist of a main body, a hinged lid and four wall mounting brackets. The cover is fastened to the body with cam locks or bolts. Enclosure can be provided with maximum four gland plates, one on each of the walls of the enclosure. The enclosures provide an ingress protection rating of IP66 in accordance with IEC 60529. The gaskets utilized between the hinged lid and main body and between main body and gland plate are manufactured from silicon. All enclosures have an internal and external earth facility.

Model Designation:

MM	EE	N	XX	YYY	HHH	WWW	DDD
Metal Mech product	Empty Enclosure	Gland plates	Material grade	Fastening mechanism	Height	Width	Depth
		0: Without gland plate 1: With gland plate	1 = Mild steel (ASTM-A653 GR. CRCA) 2 = SS 304 (ASTM A 351-2006 GR. CF8) 3= SS304L (SS 304 (ASTM A 351-2006 GR. CF8) 4 = SS 316 (ASTM-A 743-2006 GR. CF8M) 5 = SS 316L (ASTM A 743-2006 GR. CF3M)	L: Quarter turn Lock S: Locking screws	150 mm to 800 mm	150 mm to 600 mm	100 mm to 250 mm

The enclosures are available in the following sizes:

Sr.No	Model	Height mm	Width mm	Depth mm
1	MM EE XX YYY 150150100	150	150	100
2	MM EE XX YYY 200200120	200	200	120
3	MM EE XX YYY 200300120	200	300	120
4	MM EE XX YYY 250250140	250	250	140
5	MM EE XX YYY 300300120	300	300	120
6	MM EE XX YYY 300350140	300	350	140
7	MM EE XX YYY 380380160	380	380	160
8	MM EE XX YYY 400400160	400	400	160
9	MM EE XX YYY 500400160	500	400	160
10	MM EE XX YYY 500500200	500	500	200
11	MM EE XX YYY 600500210	600	500	210
12	MM EE XX YYY 600600210	600	600	210
13	MM EE XX YYY 650650210	650	650	210
14	MM EE XX YYY 800600250	800	600	250

Note: The enclosure may also be manufactured to sizes not specified in the table provided that any given dimension is not larger than the respective dimension of the largest enclosure or smaller than

the respective dimension of the smallest enclosure

Electrical Data

Not Applicable

Degrees of protection (IP Code)

IP 66

Temperature range:

$-50^{\circ}\text{C} \leq T_a \leq +140^{\circ}\text{C}$

Routine tests

Not Applicable

[16] **Report No.:** 2025-8167
Project No.: PRJN-814834

[17] Schedule of Limitations

1. The service temperature range -50°C to $+140^{\circ}\text{C}$ shall not be exceeded for gaskets installed between the hinged lid and main body and between main body and gland plate.
2. Earthing facility is suitable for maximum conductor size of 16 mm^2 for M6, 70 mm^2 for M8 and 240 mm^2 for M10. Hence phase conductor size shall be limited to up to 35 mm^2 , 140 mm^2 and 480 mm^2 respectively.
3. Enclosures made from mild steel with external epoxy paint, when assessed as an Ex equipment shall be marked as per the requirements of clause 7.4.2 e) and 7.4.3 e) (as applicable) and relevant instruction provided.
4. Enclosures have been assessed for fixed installation only.
5. All unused entry openings must be fitted with a suitable cable entry device of protection types Ex "eb" and Ex "tb" and must have a minimum IP66 rating.
6. Installation of electrical components inside the empty enclosures requires a further assessment by an ExCB. Creepage and Clearance distances shall comply with the requirements of IEC 60079-7.

[18] Essential Health and Safety Requirements

Met by compliance with the requirements mentioned in item 9.

[19] Drawings and documents

Number	Title	Rev.	Date
MM-Ex-EE	Schedule drawing of Ex eb Empty Enclosure.	R0	03/06/2024

[20] Certificate History

Issue	Description	Issue date	Report no.
0	Original issue	2026-03-19	2025-8167

Compliance of the component with the applicable safety requirements of the relevant industrial standards has not been verified and is not covered by this certificate.

END OF CERTIFICATE