



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE NUMBER ITS17ATEX102020X Issue 0

13. Description of Equipment or Protective System

The equipment is an electric vibrator series made by an asynchronous electric motor (from 2 poles up to 8 poles, they can be three phases or monophase) with centrifugal counter-weight (eccentric weights) on both end of the shaft to produce oscillating vibrations on the machine.

Type of protection of the equipment can be or "tb", with a range of ambient temperature from -20°C up to +40°C or from -20°C up to +55°C, either "tb" and "eb" with a range of temperature from -20°C up to +40°C. The equipment can be made in different size and different range of supply, see the type code for all possible configuration. The models share a common design concept, vary in primary voltage and power ratings and corresponding frame size.

The enclosure is made in aluminum or in spheroidal casting. The cover mass is made in steel, stainless steel or aluminum.

The temperature class depending on the size of the enclosure and the type of protection:

Size	Temperature class	
	+40°C	+55°C
Dust		
10-30	T100°C	T115°C
40-91	T135°C	T150°C
Gas		
10-30	T3	/
40-91	T3	/

Operating condition are (for both type of protection "tb" and "eb"):

Max input power values: 9.5kW at 50Hz or 9.3kW at 60Hz
 Number of poles: 2, 4, 6 and 8
 Current values: up to 18.10A
 Position: all position;
 Duty rating: S1 continuous;
 Phases: Three-phase or Single-phase;

Only for the equipment with "tb" type of protection the operating condition are:

Rating voltage:
 230V / 400V at 50Hz or 230V / 460V at 60Hz;
 400V / 690V at 50Hz or 460V at 60Hz, only at Δ;
 290V / 500V at 50Hz or 330V / 575V at 60Hz;
 500V at 50Hz, only at Δ or 575V at 60Hz, only at Δ;
 230V at 50Hz 1Ph or 220V at 60Hz 1Ph;
 115V at 50 / 60Hz 1Ph;
 Ambient temperature: -20°C ≤ Tamb ≤ +40°C or -20°C ≤ Tamb ≤ +55°C;

Only when the equipment has both type of protection ("eb" and "tb"), the operating condition are:

Rating voltage:
 230V / 400V at 50Hz or 230V / 460V at 60Hz;
 400V at 50Hz, only at Δ or 460V at 60Hz, only at Δ;
 290V / 500V at 50Hz or 330V at 60Hz only at Δ;
 500V at 50Hz, only at Δ;
 Ambient temperature: -20°C ≤ Tamb ≤ +40°C



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE NUMBER ITS17ATEX102020X Issue 0

- 1: 1000rpm;
- 12: 1200rpm;
- 6: 1200rpm;
- 075: 750rpm;
- 090: 900rpm;
- 8: 900rpm.

Centrifugal force:

- Available only for certification level J and H:
 - See file FT00117_SEC_1_MVE-SERIE-J-19-07-2017 and FT00117_SEC_1_MVE-SERIE-H-19-07-2017 for see all centrifugal forces;
- Available only for certification level E or X:
 - See file FT00117_SEC_1_MVE-SERIE-E-19-07-2017 and FT00117_SEC_1_MVE-SERIE-X-19-07-2017 for see all centrifugal forces.

Manufacturing location

OLI VIBRA LTD
HF 18, Hal Far Industrial Estate,
Hal Far. BBG3000
Malta

14. Report Number

Intertek Report Ref: 103057191UDI-001B dated: December 2017

15. Special Conditions of Certification

(a). Specific Conditions of Safe Use

- The motorvibrator can be used with inverter too, in this case the equipment shall be provided with thermistor to avoid that the temperature exceeds 130°C;
- The cables must be suitable for an operating temperature at least:

Size	Ambient temperature	
	+40°C	+55°C
10-30	80°C	85°C
40-91	110°C	125°C

- It required the use adequate cable glands, or blanking elements suitable for the type of protection of the equipment and ambient temperature;
- The installer and the user shall take into account the manufacturer instructions.



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE NUMBER ITS17ATEX102020X Issue 0

- The class temperature is function of the maximum ambient temperature and the size of the electric motor/vibrator as showed in the table:

Size	Temperature class	
	+40°C	+55°C
Dust		
10-30	T100°C	T115°C
40-91	T135°C	T150°C
Gas		
10-30	T3	/
40-91	T3	/

(b). Conditions of Manufacture - Routine Tests

It is required, for IEC 60079-7, clause 7.1, that the manufacturer shall perform an electric strength test (between the primary wiring, including connected components, and accessible dead metal parts that are capable of becoming energized) at:

For all three phase motors the test will be carry out at one of these conditions:

- For 60s at:
 - $(1000+2U)$ [Vac]; or
 - $1.7 \cdot (1000+2U)$ [Vdc]; or
- For 100ms at:
 - $1.2 \cdot (1000+2U)$ [Vac]; or
 - $1.7 \cdot 1.2 \cdot (1000+2U)$ [Vdc].

Where U is the maximum rated voltage.

For all mono phase motors the test will be carry put at these at one of these conditions:

- For 60s at:
 - 1500 [Vac]; or
 - 2550 [Vdc]; or
- For 100ms at:
 - 1800 [Vac] or
 - 3060 [Vdc].

All tests shall be recorded and records maintained.

16. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report Ref: 103057191UDI-001B dated: December 2017

EU-Type Examination Certificate



Valued Quality. Delivered.

SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE NUMBER ITS17ATEX102020X Issue 0

17. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
Electric external motovibrators	OLMVEA5EXE01	0	Apr 2017
Electric external motovibrators	OLMVEA5I12D01	0	Jun 2017
TECHNICAL DATA	FT00117	0	Dec 2017
Powder Paint	/	0	15 Jan 2015
Vacuum Resin Process	OLI-ISF-01	0	/
Insulated Conductor	Insulated conductor	0	31 Aug 2017
OD_24	OD_24	/	Oct 2017
ID-PLATE_ REV.0_24-11-17	Follow code on the ID.Plate	0	24 Nov 2017

Page 6 of 6

This Certificate is the property of Intertek Testing and Certification Ltd and is subject to Intertek Testing and Certification's Conditions for Granting Certification

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.