



October 24, 2011

TO: Mr. Jesse Slagel
Parker Hannifin Corp.
403 Industrial Dr
Nacogdoches, TX 75963
US

FROM: Jose A. Dominguez
3017AMEL

PROJECT: 11CA04584, E344566.

SUBJECT: Letter Report – IP66 Evaluation of Motor Shaft Seals Models MLE, and LWE.

Standards: IEC 60529 - DEGREES OF PROTECTION REQUIRED BY ENCLOSURE -
Edition 2.1 - Revision Date 2009/10/01

Dear Mr. Slagel,

We have completed our investigation of the Motor Shaft Seals Models MLE, and LWE, and our findings are described in the following pages of this report.



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DESCRIPTION:

MLE Motor Shaft Seal

Fig 1

Overall Dimensions:

Outer Diameter 3.15 in

Inner Diameter 2.05 in

Thickness 0.59 in

- Stator – Made of Bronze, Stainless Steel or Carbon Steel
- Rotor - Made of Bronze, Stainless Steel or Carbon Steel
- O-ring Stator – Type FKM 3.5 mm thick
- O-ring Rotor – Type FKM 2.65 mm thick
- Difuser - Graphite Filled Polytetrafluoroethylene (PTFE)

See Illustration 1 for location and dimensions of every component.

LWE Motor Shaft Seal

Fig 2

Overall Dimensions:

Outer Diameter 3.15 in

Inner Diameter 2.05 in

Thickness 0.59 in

- Stator – Graphite Filled Polytetrafluoroethylene (PTFE)
- Rotor - Graphite Filled Polytetrafluoroethylene (PTFE)
- O-ring Stator – Type FKM 3.5 mm thick
- O-ring Rotor – Type FKM 2.65 mm thick

See Illustration 2 for location and dimensions.



TESTS

The following test was performed with the result (comply/does not comply) indicated below.

Model Tested	Test	Ratings	Results *
MLE	DUST TEST FOR ENCLOSURE DESIGNATION IP6X	IP6X	Compliant
MLE	WATER SPRAY TEST FOR ENCLOSURE DESIGNATION IPX6	IPX6	Compliant
LWE	DUST TEST FOR ENCLOSURE DESIGNATION IP6X	IP6X	Compliant
LWE	WATER SPRAY TEST FOR ENCLOSURE DESIGNATION IPX6	IPX6	Compliant

* Refer to the Datasheets attached for detailed test results.



CONCLUSION:

The subject devices are in compliance with the previously specified clauses of the subject standard(s).

This concludes our work under project number 11CA04584.

Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.

Please let me know if you have any questions.

Sincerely,

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