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Ontploffing Beskermingsdienste
Explosion Prevention Services

Associated with a SANAS Approved Test Laboratory T0749 and Approved Inspection Authority CI016

ASSESSMENT AND TEST REPORT

Report Number: MTEx 0489/18.0338

POWER PROCESS SYSTEMS
P.O. BOX 4172
SOUTHGATE
2082

Date: 8 November 2018
Client Reference: PO50404
Revision: 0

1. Standard (s) used

Testing was conducted in accordance with the following standards:

NRS 032: 2012 (Clause 5.1.2)	**Service distribution boxes- Pole mounted types for overhead single –phase AC service connections at 230V.**
SANS 60529:2013 Ed 1.2 IEC 60529: 2013 Ed 2.2	**Degrees of protection provided by enclosures (IP Code).**

2. APPARATUS PROPERTIES

Manufacturer : Power Process Systems
Type of product : Pole Mount Enclosure Polyethylene
Model : SMB Range

The enclosure was manufactured from Linear Low Density Polyethylene (**LLDPE**) moulded non-metallic material. The door of the enclosure was fitted to the enclosure without any hinges, and slided into the top part of the enclosure to stay in the open position. The enclosure made provision to be locked by means of a padlock and a bracket protruding through the bottom part of the door.
The enclosure had approximate dimensions of 480mm x 480mm x 220mm.

3. Test results

3.1 Clause 5.1.2 Resistance to impact (NRS 032:2012)

Each surface of the enclosure was subjected to a resistance to impact test at 0.5J.

Conclusion
The enclosure did not show any damage incurred during the test.

3.2 Clause 14.2.4 IPX4 (SANS 60529)

Test conditions
Temperature : 20.03°C
Air pressure : 863kPa
Humidity : 44.65%RH

After the resistance to impact test as describe in clause 3.1 of this report, the enclosure was subjected to the IPX4 test.
The enclosure was sprayed using a spray nozzle from all directions and a distance of between 300mm and 500mm. The test continued for a duration of 5 minutes at a water flow rate of 7ℓ/min.

Conclusion
No water entered the enclosure.

3.3 Clause 13.2 IP4X (SANS 60529)

Test conditions
Temperature : 22.4°C
Air pressure : 865kPa
Humidity : 43.79%RH

A 1mm wire at a force of 1N was pressed at possible failure points on the enclosure.

Conclusion:
The wire did not penetrate to the inside of the enclosure.

Authorized by:

H de Wet, Testing Officer.

Reviewed by:

JS Venter, Editor.

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