



## ASSESSMENT AND TEST REPORT

Report Number: MTEx 1082/20.0264

**POWER PROCESS SYSTEMS**  
P.O. BOX 4172  
SOUTHGATE  
2082

Date: 21 August 2020  
Client Reference: COD  
Revision: 0

### 1. Standard (s) used

Testing was conducted in accordance with the following standards:

<b>NRS 032: 2012</b>	Service distribution boxes- Pole mounted types for overhead single-phase AC service connections at 230V.
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### 2. APPARATUS PROPERTIES

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

The enclosure was manufactured from grey Linear Low-Density Polyethylene (LLDPE) moulded non-metallic material. The door of the enclosure was fitted to the enclosure without any hinges, and slide into the top part of the enclosure to stay in the open position. The enclosure made provision to be locked by means of a hexagon head bolt protruding through the bottom part of the door.

The enclosure had approximate dimensions of 470mm x 370mm x 200mm.

The enclosure was fitted with the following components:

- One CBI 100A three phase isolator.
- Six CBI 63A single phase circuit breakers.
- One earth/ neutral busbar.

Reviewed by + signature (ExTL):	J. Venter	
Approved by + signature (ExCB): (MTEx Laboratories Technical Signatory)	H. de Wet	





### 3. Test conducted

#### Procedure

Temperature rise test procedure as per Clause 5.1.4 of the standard was followed.

The rated current 63A single phase circuit breakers /100A three phase isolator was drawn for four hours. 16mm<sup>2</sup> rigid stranded conductors were used.

#### Results

Results of temperature test.				
Time interval	First hour	Second hour	Third hour	Fourth hour
TC1	39.50°C	59.80°C	71.80°C	72.10°C
TC2	34.70°C	53.90°C	56.20°C	57.10°C
TC3	22.90°C	37.50°C	38.60°C	38.40°C
TC4 (Ambient)	15.70°C	18.40°C	19.60°C	19.83°C

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