



Government Approved Test Laboratory
(Previously AIA)

Reg No: 1999/027771/07

ACCREDITED AND APPROVED TEST LABORATORY
IN TERMS OF ARP 0108: "REGULATORY REQUIREMENTS FOR EXPLOSION PROTECTED APPARATUS"

SUPPLEMENTARY CERTIFICATE (1)

AMANDLA PUMPS (PTY) LTD
PO BOX 61106
MARSHALLTOWN
2107

Issued: **28 April 2018**
*Expire: **26 Jul 2027**

1st Supplement to Certificate number: M-XPL/16.0844 X

Equipment: Submersible Pump
Manufacturer: Amandla Pumps (Pty) Ltd
Type: Varkie S75X
Serial No: all serial numbers of equipment covered by a valid report, or accepted product certification mark.

Supplied by

Amandla Pumps (Pty) Ltd

Identified by Inspection Authority number

M-XPL/16.0844 X

And as described in the Explolabs test report number XPL/17613/16.0844

This supplement report extends the existing approval for the type Varkie S55X submersible pumps to include variation VarkieS75X as described in the report and documents referred to.

This supplement certificate shall be held with the original certificate.

This certification indicates compliance with R10.1 of the Mines Health and Safety Act and/or EMR 9(2) of the Occupational Health and Safety Act, provided that the apparatus is used as relevant in accordance with:

- i) SANS 10086 and IEC/SANS 61241-14 requirements as applicable;
- ii) Any conditions mentioned in the above report;
- iii) Any relevant requirements and codes of practice enforced in terms of the Mine Health and Safety Act or Occupational Health and Safety Act; and
- iv) Any restrictions and conditions enforced by the Chief Inspector of Mines or the Principal Inspector or the Chief Inspector: Occupational Health and Safety.
- v) A revision certificate replaces all previous version of the certificate.
- vi) * - Only covers equipment Imported between the "Issued" and "Expire" dates.



T0104

The South African National Accreditation System (SANAS) is a member of the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA). This Arrangement allows for the mutual recognition of technical test and calibration data by the member accreditation bodies worldwide. For more information on the Arrangement please consult www.ilac.org

1. GENERAL

The type VARKIE S55X squirrel cage induction motors are manufactured from Grade 260 Grey Iron (Cast iron) and comprise of a stator casing, DE endshield, NDE endshield, and connection box. The motor had a general length of $\pm 399\text{mm}$ and an internal free volume of approximately 2.0l .

The motor has a connection box which is fabricated to the motor casing. The connection box made provision for one cable gland which formed part of the connection box housing. The motor stator casing and connection box was separated by means of epoxy resin. The connection box had an internal free volume of approximately 0.5l .

2. SPECIAL CONDITIONS OF USE (X)

- Some flamepath dimensions are different than the relevant values given in Table 1 of SANS 60079-1. For repairs the OEM must be consulted for information regarding flamepath lengths. (Refer to operation manual AP/PM550/0616).
- The product temperature displaced by the pump may not exceed a temperature of 55°C .

3. MARKING

The following (or similar) information had to be clearly and permanently marked on all units covered by this report:

AMANDLA PUMPS (PTY) LTD
Submersible Pump

Type : Varkie S75X
 Ex Rating : Ex db I Mb
 IA No. : M-XPL/16.0844X

An additional label was fitted with the water cooling requirements as follows:

Maximum water temperature 40°C
Pump to be fully submerged at all times.

Responsible Testing Officer:



D Maree
 SANAS Technical Signatory

Reviewed by:



H de Wet
 Testing Officer

EXPLOLABS EXPLOSION PREVENTION SERVICES

This report/certificate shall not be reproduced except in full without the written approval of the company Explolabs (Pty) Ltd shall not be liable for any losses or damages sustained on account of any failure or omission to properly perform our duties in terms of any contract undertaken by us. This disclaimer is immutable and automatically incorporated in any contract undertaken by us, notwithstanding anything to the contrary, save for the express written waiver of our managing director.

The contents of electronic reports/certificates cannot be guaranteed. Original certification documents will be kept on file at Explolabs (Pty) Ltd