



Explosion Prevention Services (Pty) Ltd

Rea No: 1999/027771/07

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GOVERNMENT APPROVED TEST LABORATORY

IN TERMS OF ARP 0108: "REGULATORY REQUIREMENTS FOR EXPLOSION PROTECTED APPARATUS"

IA CERTIFICATE

Date Issued: 08 Jan 2018
*Expiry date: 08 Jan 2028
Page 1 of 2
Issue: 0

Ex – Type Examination Certificate

Certificate Number: M-XPL/17.1299 X
Equipment: Dewatering Submersible Pump
Model / Type: Jenny J11H(X); Jenny J11M(X)
Applicant: Amandla Pumps (Pty) Ltd
10 Venda Road
Sebenza
Edenvale, 1609
Manufacturer: Amandla Pumps (Pty) Ltd
Serial No: All serial numbers of equipment covered by a valid report or acceptable product certification mark.

The unit(s) as described in Explolabs File Number XPL/18927/17.1299 is hereby certified "Explosion Protected" Ex db I Mb, having been tested, examined and inspected in accordance with the relevant requirements of South African Standards:

- SANS 60079-0: 2012 Ed 5 Explosive atmospheres Part 0: Equipment — General requirements
IEC 60079-0: 2011 Ed 6
SANS 60079-1: 2015 Ed 5 Explosive atmospheres Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-1: 2014 Ed 7

Risk of ignition provided:

Table with 5 columns: Protection afforded, Equipment Protection Level (EPL) Group, Performance of protection, Conditions of operation, T class or Max Surface Temp (°C). Row 1: High, Mb Group I, Suitable for normal operation and severe operating conditions, Equipment de-energized when explosive atmosphere present, T150°C

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.
vii) If and when your QAN (Quality Assurance Notification) Certificate for your equipment manufacturer expires during the valid period of the IA Certification (issued for your equipment) and a new certificate is not submitted the existing IA Certification will then be cancelled. It is thus the client's responsibility to always submit the updated and valid QAN certificate(s) to Explolabs (Pty) Ltd



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. DESCRIPTION OF EQUIPMENT

The type Jenny J11H (X) and J11M (X) submersible pump is manufactured from Grade 200/260 Grey Iron (Cast iron) and comprise of a stator casing, DE endshield, NDE endshield, and connection box. The submersible pump had a general length of $\pm 623\text{mm}$ and an internal free volume of approximately 2.0ℓ.

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

Electrical Ratings

11kW, 1000V, 2950RPM, 50Hz

2. SPECIAL CONDITIONS FOR SAFE USE *(denoted by X after certificate number)*

Some flamepath dimensions are different than the relevant values given in Table 1 of SANS 60079-1. For repair work the Original Equipment Manufacturer must be consulted for information regarding the flamepath lengths (refer to Operation Manual AP/PMJ11/0917).

The product temperature displaced by the pump may not exceed a temperature of 55°C.

3. INSTALLATION INSTRUCTIONS

It is the manufacturer's responsibility to supply installation instructions with each unit offered for sale as required by IEC/SANS 60079-0 Clause 30.

4. CONDITIONS OF CERTIFICATION

All production units must be covered by a QAN (Quality Assurance Notification), Product Mark Scheme or batch evaluation.

5. MARKING

The following (or similar) information have to be clearly and permanently marked on all units:

Supplier : Amandla Pumps (Pty) Ltd
 Manufacturer : Amandla Pumps (Pty) Ltd
 Equipment : Dewatering Submersible Pump
 Model/Type : Jenny J11H(X); Jenny J11M(X)
 Serial No. : ---
 Ex Rating : Ex db I Mb
 IA Certificate No : M-XPL/17.1299 X
 Water flow rate: 18ℓ/sec

Refer to nameplate for electrical details and warning markings

Responsible Testing Officer:



K Malibe
 Testing Officer

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. By marking the equipment in accordance with the documentation/standard, the manufacturer attests on his own responsibility that the equipment has been constructed in accordance with the applicable requirements of the relevant standards and that the routine verifications and tests have been successfully completed and that the product complies with the documentation and standard(s). The contents of electronic reports/certificates cannot be guaranteed. Original certification documents will be kept on file at Explolabs (Pty) Ltd