

## APPROVED INSPECTION AUTHORITY

IN TERMS OF REGULATIONS 21.17.2 OF THE MINERALS ACT  
(INCORPORATED IN THE MINE HEALTH AND SAFETY ACT No. 29 OF 1996  
AND REGULATION 8(2) OF THE ELECTRICAL MACHINERY REGULATIONS  
OF THE OCCUPATIONAL HEALTH AND SAFETY ACT, No. 85 OF 1993

Zest Electric Motors (Pty) Ltd  
Private Bag X10011  
SANDTON  
2146

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Expiry Date: JANUARY 2022

Date: January 2012

### IA CERTIFICATE: SABS MS/11-843

#### WEG ELECTRICAL MOTORS (IEC Explosion Proof) – FLAMEPROOF

The motors were manufactured by WEG Electrical Motors -Brazil. They were 3 phase, continuous rated, foot mounted cast iron motors. The output of the motors varies from 0.37kW – 330kW. Frame sizes 90 to 355M/L. Spigot joints served as flame paths between the stator casing and the two end-shields. The flame paths, on the rotor were at both sides, between the shaft and end-shields, and between stator housing and terminal box. The winding tail ends exit the motor via an opening in the stator casing into a terminal box where they are terminated onto a base.

The motors were previously approved under SABS Test Report No. 777/85056/K154 and IA No MS787/K154

MARKING: The following (minimum) marking should be displayed on each motor.  
WEG.

Type: IEC Explosion Proof  
Ex d I /IIB T4 IP 55  
IA No: SABS MS/11-843  
Serial No: -----

COMPLIANCE: The unit as described above and examined in TEST REPORT No. SABS 2335/11-843 is hereby certified "Explosion Protected" and is suitable for use in hazardous locations as stated below, and determined during tests and inspections conducted in accordance with the relevant requirements of SANS Standards:

SANS 60079: "Explosive atmospheres", Part-0: 2009 "Equipment-General requirements" and Part-1:2009 "Equipment protection by flameproof enclosures 'd'"

Locations	: Zone 1	: Gas / Coal dust:	Underground in a coal mine and on surface
Hazard Frequency	: Intermittent as could occur under normal operating conditions in a hazardous area		
Environment	: Group I/IIB	: Methane to Ethylene	
Temperature Class	: T4		

The use of apparatus in hazardous locations is subject to the following provisions, which shall be adhered to:

- SANS 10086 requirements;
- Any relevant requirements of the MHS or OHS act;
- Codes of Practice enforced in terms of Regulations 21.17.2 of the Mineral Act, by the Chief Inspector of Mines;
- Any restrictions and conditions enforced by the Chief Inspector of Mines, Principal Inspector (Group I equipment) or Chief Inspector of Factories (Group II equipment);
- Any conditions mentioned in the above Test Report.

Evaluated by:  P Heigers: TESTING OFFICER

 Duke Richard Nene: MANAGER

EXPLOSION PREVENTION TECHNOLOGY

SABS COMMERCIAL (Pty) Ltd – Reg. No. 2000/013581/07

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