



## 1. GENERAL

The Motor assembly (see below) can be described as follows:

The WEG motor was a 3 phase, 525 V, type BT96211, foot mounted motor. It had a cast steel frame or alternately an aluminium frame with heavy ventilation ribs, a lifting facility (eye-bolt), and an externally mounted plastic fan with a steel cover.

Rubber gaskets were fitted between the terminal box cover and the body of the box, and between the body of the box and the motor casing. The Auxiliary terminal box had the same seal construction and was fastened to the existing terminal box by means of Conduit.

A steel barrier was fitted between the stator casing and terminal box, which contained insulated connecting cables with terminals on both ends. The motor leads were ended in soldered lugs and fixed to the internal terminals with nuts. Slotted clamp terminals with one clamping screw each, were provided for making external connections. An internal earth clamp was provided.

The cable was not supplied, but shall meet the following requirements: Depending on such loads as will occur in practice, the cable shall be clamped as close as possible to the cable gland in such a way that any mechanical stress on the cable is not transmitted to the cable terminals and that the cable is not damaged. If the cable is prone to mechanical damage, the cable shall additionally be protected. Ferrell's shall be crimped or soldered onto the ends of the cable conductors to make the terminal connections. The cable gland shall be an approved DIP compression gland.

The shaft of the motor had an oil seal fitted to it to prevent the ingress of dust and moisture.

The unit tested is considered a typical example of the Ex tD motor series.



## 3. VARIATION 1

The rated temperature of the motor was reduced to T135 C. The temperature test was conducted under IECEx report No: GB/BAS/ExTR10.0214/00.

### SPECIAL CONDITIONS FOR SAFE (X)

- All draining holes located on the motors DE and NDE end-shields needs to be closed by the end-user before use.
- The holes need to be closed by using the appropriate plug as supplied by the OEM.

*This Cert supersedes all previous documents bearing the reference no XPL/8668/07031 Rev 2*

XPL0105

#### 4 MARKING

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

Zest Electrical Motors

Motor and Auxillary terminal Boxes

Model : 0.18kW to 330kW

Volts : 380V to 550V

Amps : up to 330kW

Aluminium frame sizes : L63 to L132

Serial no. : ----

Ex tD A21 IP66 T135°C

IA No. : S-XPL/07031 X

#### 5 ROUTINE TESTS

It is the manufacturer's responsibility to do the following routine tests:

- Inspection on all terminals
- Inspection on the silicon seal for cracks



**D Maree**  
SENIOR TESTING OFFICER



**H de Wet**  
TESTING OFFICER

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