



## Axial Fans/Plate Fans Short Cased Axial

### 1.1 General

A. Provide a circular duct mounted short case axial fan unit to meet the performance and configuration as indicated in the schedule and detail drawings. The unit shall be tested to ISO5801 and shall be of the short cased axial fan type as supplied by VES Andover Ltd a company accredited with BS EN ISO 9001:2008. Short cased axial fan performance shall be certified to precision class 3, DIN 24 166.

### 1.2 Unit Construction

A. The fan shall be provided pre-assembled comprising a sheet steel circular duct, die cast aluminium sickle bladed impeller, external rotor motor, steel wire support frame & externally mounted terminal box.

B. The duct shall be sized as indicated in the schedule & detail drawings.

C. The duct shall have pre-drilled flanges as indicated in the detail drawings.

D. The fan shall be epoxy powder coat finish as standard.

### 1.3. Fan Impeller

A. The fan shall be constructed with a die cast aluminum sickle bladed axial impeller, statically and dynamically balanced to ISO 1940 G6.3.

B. The fan shall be mated with an aerodynamic steel bell mouth mounting plate.

C. The fan impeller shall be finished to match the fan ductwork.

### 1.4. Motor

A. The fan is provided with an external rotor motor to insulation class F, IP54 environmental protection rating.

B. The motor shall incorporate a thermal protection cutout as standard.

C. The motor shall be pre-wired externally mounted plastic terminal box.

### 1.5. Operation Environment

A. The unit is designed to operate in ambient temperatures from -30°C up to 70°C, and can run continuously at up to 100% humidity level.

### 1.6. Controls

A. The unit shall be compatible with speed control systems, and shall be suitable for use with electronic and transformer speed controllers for single-phase units and fully electronic three phase speed controllers.

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