# **PRODUCT DATA SHEET**



Starter Motor Type : SM50 24V - 9.0 Kw



## APPLICATION:

Pre-engaged type Starter motor designed for Off the Road vehicles, Earth Mover and Large Diesel Engines upto, Diesel - 29.5 liters.

## RATINGS:

## Electrical:

System Voltage : 24 Volts
Polarity : Negative earth

### Mechanical:

Rotation : Clock-wise

(Viewed from Drive

end)

### Thermal:

Operating Temperature range:

-5°C to +93°C For operations down to -5°C to For operations down to -30C. Consult Lucas-TVS for recommendations on Battery capacity and cold starting aids.

## CHARACTERISTICS:

Performance Data at +20°C

For full load conditions under which the following typical power, Lock Torque and Run Torque values with a fully charged Battery 180 A.H.

Power Output : 9.0 Kw

Lock Torque : 14 Kg.m. at 7.2 volts

and 1550 Amps. (Max.)

Run Torque : 6.5 Kg. m. & 16.6 Volts

at Current 900 Amps. (Max.), Speed 1000 RPM. (Min).

Light Run Values : 23 Volts and 125 Amps.

(Max.) at 6000 - 8250

HP

Refer Performance curve overleaf

Weight : 35.0 Kg. (Approx.)
Dimensions : Principal dimensio

 Principal dimensions given overleaf. Fully detailed drawing available on request.

## FEATURES:

### Fixing:

Rotatable feature to suit different applications (every 15° rotation possible). Oil wick soaked with oil for better lubrication and enhanced bush life.

### Pinion:

No. of Teeth / Pinion Blank (Pitch)

11 / 12 (6 - 8) DP 12 / 13 (8 - 10) DP

### Enclosures:

Normal protection against water and oil entry.

## Terminations:

Positive Terminal : M12x1.75 Negative Terminal : M12 x 1.75 Solenoid Terminal : M5 x 0.8

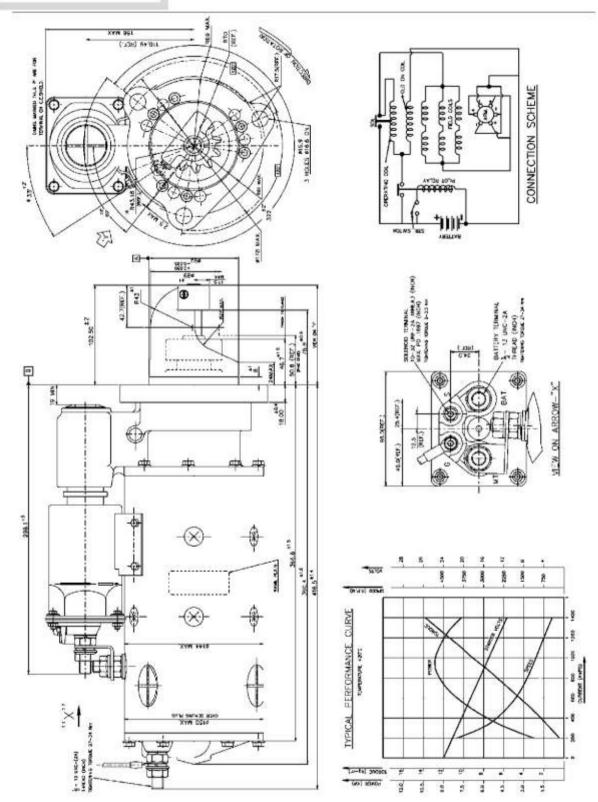
### Note

Starter should be used in conjuction with a 4ST -24V Relay Switch.

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Starter Motor Type: SM50 24V - 9.0 Kw All Dimensions are in mm



This product can only be used in approved applications and in accordance with maintenance requirements and replacement intervals. This information is available on request.