

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
RPM.

Refer Performance curve overleaf

Weight : 35.0 Kg. (Approx.)
Dimensions : Principal dimensions
given overleaf. Fully
detailed drawing
available on request.

FEATURES :

Fixing:

Rotatable feature to suit different applica-
tions (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 conjunction with a
4ST -24V Relay Switch.

