

## Overview

\* The Solectria AC55 is a single output, 78kW 3-phase AC induction motor with a nominal speed of 2.5k rpm and a maximum speed of 8k rpm.

## Applications and Features

The Solectria AC55 motor is design to power shuttle buses and medium duty trucks using dual motors, and light-duty trucks using a single motor.

- \* High-efficiency brushless design
- \* Sealed motor casing
- \* Compact, lightweight construction
- \* Low rotating losses
- \* Low electrical resistance
- \* Cost effectiveness and high reliability

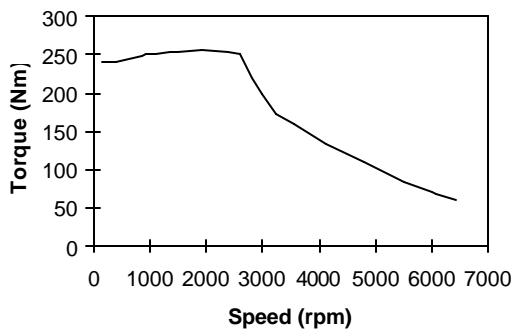
When used in conjunction with a Solectria UMOC, the motor functions as an "electronic transmission," eliminating the need for a multi-speed gearbox. It also can directly drive a vehicle's wheels with a fixed ratio.

## Available and Custom Options

- \* Power and sensor lead and length options (Standard, 4ft)
- \* Customized features such as end bells and shafts are based on customer specifications
- \* Interface package includes mating connectors (not required if purchasing a Solectria motor controller)

An engineering fee applies to all custom orders.

**Torque-Speed Envelope  
AC55 with UMOC440TF @ 312VDC**

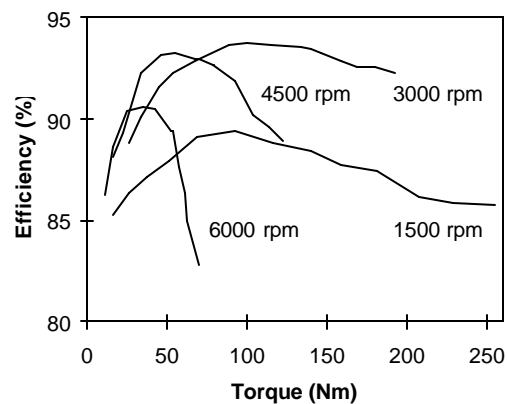


## Specifications

|                       |              |
|-----------------------|--------------|
| Peak Torque           | 240Nm        |
| Maximum Current       | 250A rms     |
| Continuous Torque     | 55Nm         |
| Continuous Power      | 34kW         |
| Peak Efficiency       | 93%          |
| Motor Controller      | UMOC440TF    |
| Peak Electrical Power | 78kW         |
| At Voltage of         | 312 VDC      |
| Nominal Speed         | 2.5k rpm     |
| Maximum Speed         | 8k rpm       |
| Weight                | 106.3kg      |
| Diameter              | 343mm        |
| Length*               | 432 to 447mm |

\*Depending on end bells and options

**Efficiency vs. Torque  
AC55 with UMOC440TF @ 312 VDC**



Solectria AC55

