

# AC INDUCTION MOTORS



SME AC motors are four or six pole induction motors with squirrel cage rotor and three phase winding on the stator.

Thanks to their robust construction, thanks to the total absence of brushes and commutators and to the SME speed sensor, SME motors represent the best solution on forklifts and other electric vehicles.

In the AC motors, the high electromagnetic field and the high working temperature cause a lot of problems to sensor bearing and, as a consequence, a very poor reliability. A lot of AC lift truck users agree that it was easier to replace brushes in DC motor (programmed maintenance) than change speed sensor every 1-2 years (random maintenance).



SME has solved this problem developing a dedicated Hall effect Speed Sensor for AC motors application.

Main features are:

- Lower working temperature because electronic circuit is separated from the bearing.
- High immunity to electro-magnetic noise.
- Easy substitution in case of damage.

SME can offer a large range of traction and pump motors from 1kW to 26kW, in IP20, IP54 and IP66 configuration.

## Main Technical Data

### Nominal Voltage (Vac):

15 to 50

### Power S2 60' (kW):

1 to 16

### Power S3 15% (kW):

2 to 26

### Insulation Class:

F or H

### Degree of Protection:

IP 20-54-66

### Complies with Standards:

CE and UL

### Temperature Sensor:

Type NK103 located in the stator winding

