

# FILLING THE GAP BETWEEN HIGH-ACCURACY PROGRAMMABLE DEVICES AND LOW-ACCURACY FACTORY-TRIMMED LINEAR HALL SENSORS.

MLX91211

The MLX91211 is a second-generation medium-speed current sensor that senses the magnetic field generated by the current flowing through a conductor, be it a cable, a bus bar or a PCB trace.

The sensor is optimized for cost-sensitive applications, and comes in 2 variants:

- the ABT version with multi-temperature trimming of the sensitivity, and high accuracy
- the ABA version with default trimming, and standard accuracy

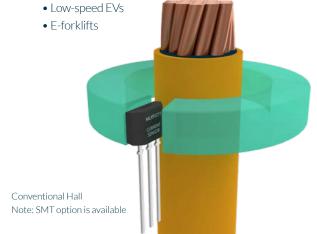
## **KEY FEATURES**

Linear Hall sensor optimized for AC and DC current sensing applications

- Factory trimmed magnetic sensitivity and offset
- Medium speed sensing
  - DC to 40 kHz bandwidth
  - 10 µs response time
- Fast startup time enabling power gating
- Miniature packages RoHS compliant & green
  - TSOT-3L (SE) surface mount
  - TO92-3L (UA) through-hole mount, with trim & form options
- AEC-Q100 automotive qualified

### **KEY APPLICATIONS**

- Starter-generators
  - 12 V starter-generators
  - Cost-sensitive 48 V inverters (BSG/ISG)
- Traction inverters
  - E-scooters



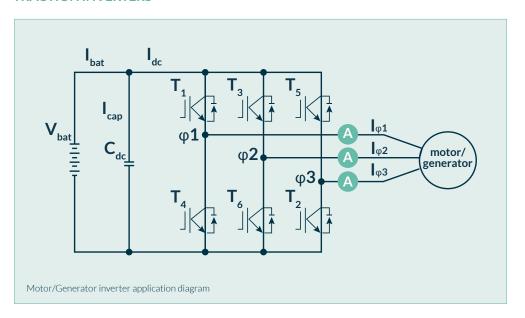
## **APPLICATION VISUALS**

## **STARTER-GENERATORS**



Belt Starter Generator (BSG)

#### **TRACTION INVERTERS**





E-scooter Golfcart Forklift