

Motenergy - ME1616 - Liquid-cooled PMSM motor



Reference : MOT-ME1616-22KW-IP65

Brand : MOTENERGY

Options :

No variants

3D Model : Available

EAN-13 : 3705829147361

Liquid-cooled three-phase brushless permanent-magnet synchronous motor (PMSM/PMAC), low-voltage DC bus (up to 96 VDC in typical integration), 22.5 kW continuous / 48 kW peak (at 100 VDC), 5 V sin/cos encoder and KTY84-130 temperature sensor – Motenergy ME1616

General description

The **Motenergy ME1616** is a **brushless permanent-magnet synchronous motor** designed for **low-voltage battery** traction and drive systems. Its **liquid-cooled** design and **IP65** ingress protection make it a robust candidate for **on-board** applications (electric mobility, retrofits, mobile machinery) where thermal performance under sustained operation is a key sizing constraint.

The motor is operated via a **three-phase inverter** with **FOC** control and relies on a **5 V sin/cos position feedback** for torque/speed regulation, complemented by a **KTY84-130 sensor** for thermal protection and current/torque limiting strategies. Available performance (torque, power, efficiency) is sized at system level based on inverter limits, the DC bus, and the cooling circuit; nominal data are established with **100 VDC as reference**.

Key advantages

- **Liquid cooling + sealed IP65 housing.**
- **5 V sin/cos rotor sensor.**
- **Integrated KTY84-130 temperature sensor.**
- **High current capability.**
- **Documented motor constants.**
- **Industrializable power and signal interfaces.**

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