DRIVES — KMD SERIES

Built with you.

Ready for the field.

Wall-mounted motor drives, developed as one team with your engineers — from the first design review to series production.



KMD Series

For IM · PM · BLDC · SynRM motors · 1–7.5 kW · single- and three-phase input

CE **RoHS** **UL***

** KMD2 models*

keld.es

THE MANUFACTURER'S CHALLENGE

Your machine is ready. The drive decision is not.

A standard drive may run the motor. But the wrong drive choice can still affect service costs, delivery dates and the reputation of the machine once it is installed. That risk starts early, in a decision made before the first prototype.



THE RANGE AT A GLANCE

Sensorless vector control (FOC)

Sinusoidal output, soft start and a protected motor.

IP66 aluminum housing + plastic enclosure

Made for harsh environments. Natural cooling, no fan.

Replaceable surge module

Surge protection replaced in minutes, without changing the drive.

Your brand, plus the KMD App

Customizable logo and housing. KMD App on iOS and Android.

WHAT IT MEANS FOR YOU

One platform, four motor technologies

IM, PM, BLDC and SynRM on the same drive. Fewer references, less stock and less training for your service team.

Fewer line stops

Complete supply and motor protection: short circuit, overload, locked rotor, phase loss and surges. A multicolor status LED shows the state at first sight, without opening the unit.

A drive that carries your brand

Customizable housing and logo, and an app for commissioning. The product your client sees is yours — with KELD engineering inside.

THE PRODUCT IN DETAIL

A closer look



1 **IP66 aluminum + plastic enclosure**

2 **Sealed glands (M20 / M16)**

3 **Four mounting legs**

4 **Multicolor status LED**

5 **Replaceable surge module**

6 **Custom housing color (×6)**

CORE FEATURES

- Sensorless vector control (FOC)
- Sinusoidal output and natural cooling — no fan to fail
- 0 – 400 Hz output, up to 22 Arms
- Designed and tested for harsh environments
- Replaceable surge protection module

MOTOR TYPES

IM **PM** **BLDC** **SynRM**

Induction, permanent magnet, brushless DC and synchronous reluctance — one control platform.

From a red LED to the root cause.

KMD does not only say that something failed. It records what happened, so your team finds the cause in hours, not days.

- **Multicolor status LED**
  Normal, running, derating and alarm shown by color.
- **Alarm log**
  The last nine events, each with a time stamp.
- **Event counters**
  Over-voltage, short-circuit, over-temp, loss of sync, phase loss.
- **Pre-fault records**
  Max temperature, power, speed, energy and run hours.

KEY FIGURES

1–7.5 kW
Power output · 5 models, 3 enclosure sizes

IP66
Aluminum + plastic enclosure

90–480 Vac
1-phase 90–265 · 3-phase 190–480

>94%
Efficiency · up to 95% by model

-20…40 °C
Operating (derating >40 °C)

Modbus
RS-485 · USB · Bluetooth · optional BACnet

Full technical data: each model's datasheet on keld.es

MODEL RANGE

Model	Power	Supply	Output	I (Arms)	Size
KMD1-0000GVG	1 kW · 1.3 HP	1-ph 90–265 V	0–265 V	5	1
KMD2-0000GAG	2.2 kW · 3 HP	1-ph 90–265 V	0–265 V	8.4	2
KMD2-1000GAG	3.5 kW · 4.5 HP	3-ph 190–480 V	0–430 V	10	2
KMD2-1001GAG	3.5 kW · 4.5 HP	3-ph 190–480 V	0–370 V	10	2
KMD3-1001GOG	7.5 kW · 10 HP	3-ph 190–480 V	0–370 V	22	3

SYSTEM INTEGRATION

Mains
1~ / 3~ input

→

KMD drive
VECTOR CONTROL (FOC)

→

Motor
IM · PM · BLDC · SynRM

Control & communication

Modbus RS-485

BACnet (optional)

Bluetooth · KMD App

Analog / digital I/O

WHERE IT WORKS

HVAC & ventilation

Pumps

Refrigeration

Industrial motors

WHY KELD

Your engineering and manufacturing partner

Co-engineering from day one. We design with your team, not for it — from a small firmware change to a full custom drive.

Quality you can audit. Structured APQP planning, validation and full traceability, from component to serial number.

Made in Zaragoza since 1972. Design, production and test under one roof. Short lines, fast answers, stable supply.

Lifecycle support. Controlled firmware and documented change management through the product life.

Review your motor application with a KELD engineer.

In a 30-minute technical review, we look at your motor, supply, control requirements and installation conditions to identify the right KMD configuration.

Book a technical review →

ABOUT KELD

Electrónica KELD has designed and manufactured custom electronics for industrial manufacturers since 1972. Drives, HVAC controls and thermostats — engineered, produced and tested in Zaragoza, Spain, for clients across Europe and the United States.

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