KELD

DRIVES — FARM SERIES

Built for hard environments.
Ready for your motors.

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



FARM

For IM · PM · BLDC · SynRM motors · 2.2–3.5 kW · single- and three-phase input · IP66

CE UL RoHS

keld.es

THE MANUFACTURER'S CHALLENGE

The motor is the easy part. The place it runs in is not.

Dust, water and heat reach the drive before they reach the motor. A drive that fails in the field means a service visit, a stopped machine and a call to you. FARM is sealed, wall mounted and built for hard environments.



THE RANGE AT A GLANCE

Vector control (FOC)

Sensorless control and sinusoidal output. Soft, steady running for the motor.

IP66 aluminum body

Natural cooling, no fan. Made for wet, dusty and hot places.

Surge protection module

Protection against supply surges, built into the drive.

Four motor technologies

IM, PM, BLDC and SynRM on one platform. Made for EC motors.

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 stops in the field
Complete protection from the supply to the motor. An external blinking LED shows an alarm from outside, without opening the panel.

Simple to wire and to control
Start / stop input, 0–10 V speed reference, alarm relay and a configurable aux relay. Modbus RS-485 when your system needs to read the drive.

THE PRODUCT IN DETAIL

A closer look



1. **Aluminum body with cooling fins**
2. **Model and rating label**
3. **IP66 sealed enclosure**
4. **Sealed cable glands**
5. **Wall mount**

CORE FEATURES

- Vectorial FOC algorithm — sensorless control
- Sinusoidal output
- Natural cooling — no fan to fail
- 0–400 Hz output frequency
- Surge protection module
- External alarm blinking LED
- Modbus RS-485 (RTU)

INPUTS & OUTPUTS

Start / stop input · **0–10 V / 10–0 V speed** · **4–20 mA *** · **Alarm relay** · **Configurable aux relay** · **Motor temp. sensor (Clixon)** · **Modbus RS-485**

** 4–20 mA speed reference on the three-phase models.*

Protected from the supply to the motor.

The drive is the part that sees the electrical problems first. FARM covers the whole path.

- **On the supply side**
  Under-voltage, over-voltage and inrush current.
- **On the motor side**
  Short circuit, overload, locked rotor and phase loss.
- **Inside the drive**
  Over-temperature protection, with derating above 40 °C.
- **Alarm and signal**
  Alarm relay, configurable aux relay and external blinking LED.

KEY FIGURES

2.2–3.5 kW
Power output · 5 models

IP66
Aluminum enclosure · natural cooling

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

>95%
Efficiency at nominal power

0–400 Hz
Output frequency

Modbus
RS-485 · RTU protocol

Common to all models: 220 × 215 × 165 mm · wall mount · 0–95% RH non-condensing · up to 2000 m · storage -40 to 70 °C · approvals CE · UL · RoHS.

MODEL RANGE

Model	Power	Supply	Output	I (Arms)	DC link
FARM0011	2.2 kW · 3.0 HP	1-ph 90–265 V	0–265 V	8.4	—
FARM1010	2.2 kW · 3.0 HP	3-ph 190–480 V	0–430 V	8.0	Electrolytic
FARM1012	2.2 kW · 3.0 HP	3-ph 190–480 V	0–370 V	8.0	MKP film
FARM1011	3.5 kW · 4.5 HP	3-ph 190–480 V	0–430 V	10.0	Electrolytic
FARM1013	3.5 kW · 4.5 HP	3-ph 190–480 V	0–370 V	10.0	MKP film

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

All models: 0–400 Hz output · IP66 · wall mount · 220 × 215 × 165 mm · Modbus RS-485. MKP film capacitors are an alternative to electrolytic capacitors on the DC link. (—) not stated in the source datasheet.

SYSTEM INTEGRATION

Mains
1~ / 3~ input

→

FARM drive
VECTOR CONTROL (FOC)

→

Motor
IM · PM · BLDC · SynRM

Control & communication

Analog / digital I/O · **Modbus RS-485** · **Alarm + aux relay** · **Motor temp. sensor**

WHERE IT WORKS

Ventilation & fans

Pumps

Agriculture & livestock

Outdoor & washdown

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 controller.

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.

Match the FARM drive to your machine.

In a 30-minute technical review, we look at your motor, supply, control needs and installation conditions to choose the right FARM model.

Book a technical review →

ABOUT KELD

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

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