KELD | DRIVES — FARM

FARM1011 / FARM1013

Mounted Wall Drive

for EC Motors



Three Phase
IM, PM, BLDC, SynRM

>95% efficiency
at nominal power

3.5 kW	IP66	190–480 Vac
4.5 HP	Aluminum enclosure	Three Phase
POWER OUTPUT	PROTECTION	VOLTAGE RANGE

CORE FEATURES

- Vectorial FOC Algorithm · Sensorless control
- Sinusoidal output · Natural cooling
- Designed for very hard environments
- Surge protection module
- External Alarm blinking LED

INPUTS & OUTPUTS

- Alarm Relay + Configurable Aux. Relay
- Start / Stop Input + Aux.
- 0–10 V / 10–0 V Speed Regulation / 4–20 mA
- Motor Temp. Sensor (Clixon)

PROTECTIONS

Supply/Input

- Under/Overvoltage Protection
- Inrush-Current Protection

Motor/Output

- Short-Circuit Protection
- Overload Protection
- Locked-Rotor Protection
- Phase-Loss Protection

Internal

- Overtemperature Protection

COMMUNICATIONS

Modbus RS-485
RTU protocol

TECHNICAL SPECIFICATIONS

Output Voltage

FARM1011	FARM1013
0–430 Vac, 3-phase (Electrolytic capacitor)	0–370 Vac, 3-phase (MKP capacitor)

Dimensions	220 x 215 x 165 mm
Mounting	Wall Mount
IP Protection	IP66
Power Supply	Three Phase 190–480 Vac (±20%), 50/60 Hz
Power Factor	No active PFC
Power Output	3.5 kW / 4.5 HP
Output Frequency	0–400 Hz
Output Current	10.0 Arms
Approvals	CE · UL · RoHS
Humidity	0–95% (non-condensing)
Altitude	2000 m (derate above 1000 m: 1%/100 m)
Operating Temp.	10°C to 50°C (Tj >40°C derating)
Storage Temp.	-40°C to 70°C

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