KELD | DRIVES — STARK

KMDF3H04A5N

Mounted Wall Drive

for EC Motors



Three Phase
IM, PM, BLDC, SynRM

>95% efficiency
at 230V / 2.2 kW

2.2 kW	IP55	190–480 Vac
3.0 HP	Aluminum enclosure	Three Phase
POWER OUTPUT	PROTECTION	VOLTAGE RANGE

CORE FEATURES

- Vectorial FOC Algorithm · Sensorless control
- Sinusoidal output
- IP55 enclosure · Natural cooling (motor mount) or forced (ventilation kit)
- Designed for very hard environments
- External Alarm blinking LED
- Integrated LCD control panel with F1/F2 preset programs

INPUTS & OUTPUTS

- Alarm Relay + Configurable Aux. Relay
- Start / Stop Input + Configurable Aux. input
- 0–10 V / 10–0 V Speed Regulation / 4–20 mA
- Motor Temp. Sensor (Pt100 / PTC / 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

KMDF3H04A5N
0–430 Vac, 3-phase

Dimensions	264 x 170 x 135 mm
Mounting	Wall Mount (ventilation kit)
IP Protection	IP55
Power Supply	Three Phase 190–480 Vac 50/60 Hz
Power Factor	No active PFC
Power Output	3.5 kW / 4.5 HP
Output Frequency	0–400 Hz
Output Current	10 Arms
Approvals	CE · 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

VENTILATION KIT

KMD-VENTKIT
Wall mounting accessory

- Optional accessory for wall mounting
- Incorporates forced-air cooling fan
- Required when motor cooling is insufficient

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