



ID-132F Series

Micro Drives



Overview

Micro drives are frequency converters with unsurpassed reliability, user-friendliness, condensed functionality, and are extremely easy to commission. Despite the compact size and the easy commissioning, Micro Drives can be set up to perform perfectly even in complex application set-ups. Approximately 100 parameters can be set to optimize energy efficiency and operation.

Applications

- General purpose drive for control of AC motors up to 22 kW (30 HP)
- Appropriate for use in industrial settings
- Appropriate for use in HVAC applications

Features & Benefits

- Plug-and-play and minimal commissioning
- High quality components
- Circuit boards well protected and coated
- Process PI-controller
- Built-in RFI filter
- Intuitive Parameter structure
- Copy settings via local control panel
- 150% motor torque up to 1 minute
- Automatic Energy Optimisation (AEO): Saves 5-15% energy in HVAC applications

Model Selection

ID-132F0001	0.25HP (0.18kW), 1.2 max. drive output current, 230VAC, single-phase
ID-132F0002	0.5HP (0.37kW), 2.2 max. drive output current, 230VAC, single-phase
ID-132F0003	1HP (0.75kW), 4.2 max. drive output current, 230VAC, single-phase
ID-132F0005	2HP (1.5kW), 6.8 max. drive output current, 230VAC, single-phase
ID-132F0007	3HP (2.2kW), 9.6 max. drive output current, 230VAC, single-phase
ID-132F0008	0.33HP (0.25kW), 1.5 max. drive output current, 230VAC, three-phase
ID-132F0009	0.5HP (0.37kW), 2.2 max. drive output current, 230VAC, three-phase
ID-132F0010	1HP (0.75kW), 4.2 max. drive output current, 230VAC, three-phase
ID-132F0012	2HP (1.5kW), 6.8 max. drive output current, 230VAC, three-phase
ID-132F0014	3HP (2.2kW), 9.6 max. drive output current, 230VAC, three-phase
ID-132F0016	5HP (4kW), 15.2 max. drive output current, 230VAC, three-phase
ID-132F0017	0.5HP (0.37kW), 1.2 max. drive output current, 480VAC, three-phase
ID-132F0018	1HP (0.75kW), 2.2 max. drive output current, 480VAC, three-phase
ID-132F0020	2HP (1.5kW), 3.7 max. drive output current, 480VAC, three-phase
ID-132F0022	3HP (2.2kW), 5.3 max. drive output current, 480VAC, three-phase
ID-132F0024	4HP (3kW), 7.2 max. drive output current, 480VAC, three-phase
ID-132F0026	5HP (4kW), 9 max. drive output current, 480VAC, three-phase
ID-132F0028	7.5HP (5.5kW), 12 max. drive output current, 480VAC, three-phase
ID-132F0030	10HP (7.5kW), 15.5 max. drive output current, 480VAC, three-phase
ID-132F0058	15HP (11kW), 23 max. drive output current, 480VAC, three-phase
ID-132F0059	20HP (15kW), 31 max. drive output current, 480VAC, three-phase
ID-132F0060	25HP (18.5kW), 37 max. drive output current, 480VAC, three-phase
ID-132F0061	30HP (22kW), 43 max. drive output current, 480VAC, three-phase

Accessories

ID-132B0102	Remote mounting kit; includes hardware and 3m (10ft) cable
ID-132B0100	Control panel/keypad without potentiometer (LCP 11)
ID-132B0101	Control panel/keypad with potentiometer (LCP 12)
ID-132B0131	Control panel/keypad blank cover
ID-132B0103	NEMA/UL Type 1 kit for M1 frame
ID-132B0104	NEMA/UL Type 1 kit for M2 frame
ID-132B0105	NEMA/UL Type 1 kit for M3 frame
ID-132B0120	NEMA/UL Type 1 kit for M4 frame
ID-132B0121	NEMA/UL Type 1 kit for M5 frame
ID-132B0106	Decoupling plate kit for M1 and M2 frames
ID-132B0107	Decoupling plate kit for M3 frames
ID-132B0122	Decoupling plate kit for M4 and M5 frames
ID-132B0108	IP21 for M1 frame
ID-132B0109	IP21 for M2 frame
ID-132B0110	IP21 for M3 frame
ID-132B0111	Din rail mounting kit for M1 frame

Product Specifications

Mains supply (L1, L2, L3)

Supply voltage	1 x 200– 240 V \pm 10%
Supply voltage	3 x 200– 240 V \pm 10%
Supply voltage	3 x 380– 480 V \pm 10%

Output data (U, V, W)

Output voltage	0– 100% of supply voltage
Output frequency	0– 200 Hz (VVC+ mode)
Output frequency	0– 400 Hz (V/Hz mode)
Switching on output	Unlimited
Ramp times	0.05– 3600 sec.

Digital inputs

Programmable inputs	5
Logic	PNP or NPN
Voltage level	0– 24 V
Maximum voltage on input	28 V DC
Input Resistance, Ri	Approx. 4 k Ω

Pulse inputs

Programmable pulse inputs	1
Voltage level	0– 24 V DC (PNP positive logic)
Pulse input accuracy (0.1– 110 kHz)	Max. error: 0.1% of full scale
Pulse input frequency	20– 5000 Hz

Analog input

Analog inputs	2
Modes	1 current/1 voltage or current
Voltage level	0–10 V (scaleable)
Current level	0/4–(scaleable)

Analog output

Programmable analog outputs	1
Current range at analog output	0/4– 20 mA
Max. load to common at analog output	500 Ω
Accuracy on analog output	Max. error: 1% of full scale

On-board power supply

Output voltage	10.5 \pm 0.5 V
Max. load (10 V)	15 mA
Max. load (24 V)	130 mA

Relay outputs

Programmable relay outputs	1
Max. terminal load	240 VAC, 2 A

Cable lengths

Max. motor cable length, shielded	50ft
Max. motor cable length, unshielded	164ft

Product Specifications (cont'd)

Surroundings/ External

Enclosure	IP20 standard; NEMA/UL Type 1 and IP21 optional
Vibration test	0.7 g
Max. relative humidity	5% – 95% (IEC 721-3-3; Class 3K3 (non-condensing) during operation
Aggressive environment	(IEC 721-3-3), coated class 3C3
Ambient temperature	Max. 122° F
24-hour average	Max. 104° F

Specifications subject to change without notice.
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