DANFOSS VLT HVAC DRIVE FC 131



DESCRIPTION

The VLT HVAC FC 131 is a dedicated drive designed to work with heating, ventilation, and air conditioning systems. The drive is easy to install and features a trouble-free set up which ensures fast and efficient commissioning. It incorporates a highly effective heat management system that makes it ideal for demanding environments and where drive space is restricted.

Typical Applications

Speed control of commercial and industrial fan applications in shopping centres, office buildings and car parks, through to industrial processes and equipment ventilation applications.

Features

- User friendly interface with start-up wizard for quick and easy configuration.
- Integrated fan / pump control for a more efficient startup.
- Normal operation or switch to special operation mode with up to 16 different zones in two setups
- Built-in PI controller for smooth variable speed control.
- Fire Mode for continuous vital fan operation regardless of control signals, warnings or alarms.
- Built-in RFI filters to remove electromagnetic interference and lower harmonic levels.
- DC choke to mitigate harmonics and balance voltage drops and spikes.
- Thermistor input to prevent motors from overheating.
- IP54 class protection enclosure.
- Up to 50°C ambient temperature with derating.

Electrical Supply

380–480V, three-phase, 50Hz

Testing

Harmonics Standard EN 61000-3-12

EMC Standard EN/IEC 61800-3

(C1 & C2 – cable length restrictions apply)

Wiring Diagram

Please refer all enquires to Fantech sales engineers.

Standard I/O

- 4 x Digital Inputs
- 2 x Analogue Inputs 0-10V or 0/4-20mA
- 2 x Analogue Outputs 0/4-20mA (Can be used as digital outputs)
- 2 x Relay Output

Fieldbus communication

- BACnet MSTP
- Modbus RTU
- FC Protocol
- N2 Metasys
- FLN Apogees

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TECHNICAL DATA

Model	Input / Output	Motor kW	Amps @ 40°C	Protection Class	Frame Size	Dimensions, mm	Weight, kg.
FC131-132L9242	3 phase / 3 phase	0.75	2.2	IP54	I2	115W x 332H x 225D	5.3
FC131-132L9243		1.5	3.7				
FC131-132L9245		2.2	5.3				
FC131-132L9246		3	7.2				
FC131-132L9248		4	9.0				
FC131-132L9249		5.5	12.0		I3	135W x 368H x 237D	7.2
FC131-132L9250		7.5	15.5				
FC131-132L9251		11	23.0		I4	180W x 476H x 290D	13.8
FC131-132L9252		15	31.0				
FC131-132L9253		18.5	37.0				
FC131-132L9255		22	44.0		I6	242W x 650H x 260D	27
FC131-132L9257		30	61.0				
FC131-132L9259		37	73.0				
FC131-132L9262		45	90.0		I7	308W x 680H x 310D	45
FC131-132L9264		55	106.0				
FC131-132L9266		75	147.0		I8	370W x 770H x 335D	65
FC131-132L9269		90	177.0				

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