

DANFOSS VLT MICRO DRIVE FC 51



DESCRIPTION

The VLT Micro Drive FC 51 drive has been designed for applications where simplicity and efficiency are key requirements. The compact size of the enclosure with forced cooled heat sink allows the drive to be installed into confined spaces.

Features

- Basic interface with quick menu and easy configuration.
- Can be mounted side-by-side mounting without derating.
- Coated PCB (printed circuit boards) to restrict dust penetration.
- Built-in RFI filters to remove electromagnetic interference and lower harmonic levels.
- Fan cooled heat sink prevents the drive from overheating and enables it to be installed into confined spaces
- A range of inbuilt functions specifically developed to save energy and create an effective environmental controls system.
- IP20 class protection enclosure (with optional IP21 kit)
- Up to 40°C ambient temperature.

TECHNICAL DATA

Part Number	Input / Output	Motor kW	Amps @ 40°C	Frame Size	Protection Class	Dimensions, mm	Weight, kg.
FC51-132F0001	1 phase / 3 phase	0.18	1.2	M1	IP20	70W x 150H x 148D	1.1
FC51-132F0002		0.37	2.2				
FC51-132F0003		0.75	4.2				
FC51-132F0005		1.5	6.8	M2		75W x 180H x 168D	1.6
FC51-132F0007		2.2	9.6	M3		90W x 239H x 194D	3
FC51-132F0017		0.37	1.2	M1		70W x 150H x 148D	1.1
FC51-132F0018		0.75	2.2				
FC51-132F0020	3 phase / 3 phase	1.5	3.7	M2	IP20	75W x 180H x 168D	1.6
FC51-132F0022		2.2	5.3				
FC51-132F0024		3	7.2				
FC51-132F0026		4	9	M3		90W x 239H x 194D	3
FC51-132F0028		5.5	12				
FC51-132F0030		7.5	15.5				
FC51-132F0058		11	23	M4		125W x 292H x 241D	6
FC51-132F0059	15	31					
FC51-132F0060	18.5	37					
FC51-132F0061	22	43	M5	165W x 335H x 248D	9.5		

Typical Applications

Commercial supply or exhaust air fan applications such as factories, warehouses, commercial kitchens, retail outlets.

Special Note

Requires Local Control Panel (LCP) to be ordered separately:
 FC51-132B0100 – LCP without potentiometer
 FC51-132B0101 – LCP with potentiometer

Electrical Supply

200–240V, single-phase, 50/60Hz
 380–480V, three-phase, 50/60Hz

Testing

Harmonics Standard EN 61000-3-12
 EMC Standard EN/IEC 61800-3
 (C1 & C2 – cable length restrictions apply)

Standard I/O

- 5 x Digital Inputs
- 2 x Analogue Inputs 1x 0/4-20mA, 1x 0-10V or 0/4-20mA
- 1 x Analogue Outputs 0/4-20mA
- 1 x Relay Output

Fieldbus communication

- Modbus RTU
- FC Protocol