



ENVIRONMENT
ECONOMICAL
EXPERTISE

IDDXF54 – HVAC INVERTER THREE PHASE IP54

DEMAND INDEPENDENT, SWITCHED AND PROPORTIONAL DRIVE – FOR AXIAL AND CENTRIFUGAL FANS

FEATURES

- 400V, 2.2-177A, 0.75-90kW 3 Ph
- Designed for HVAC applications i.e. Fire mode, Flying Start...
- Enclosures IP54 (see IDDXF66 for IP66)
- Asynch and PM motor control. Max shielded cable length 25m
- Simple installation wizard.
- Alpha-numeric display
- In built motor overheat protection via motor thermistors
- EMC A1/C2 integrated filters and DC choke for harmonic mitigation
- 4xDI, 2xAI, 1xAO/DO and 2xRO / RS485. Modbus RTU, N2, FLN and BACnet
- Maximum ambient 50°C

OPTIONAL ACCESSORIES

- PIR
- Temp Sensor
- CO₂ Sensor
- Pressure Sensor
- 0-10 V pot - (10 volt)

DESCRIPTION

Designed specifically for three phase fan applications our IDDXF Frequency converters control speed, torque, and the overall performance of AC and PM motors by controlling the power input. Independent, Switched and Proportional demand control from the included digital, and HVAC protocols ensures maximum efficiency and comfort to the level required.

A safety isolator/switch disconnecter should be installed on the mains side of all motor drives; refer to SISO.

RANGE

Model	Ph.	V	IP	Amps	kW	FWG Part	Enc.
IDDXF-54-2.2	3-3	400V	54	2.2	0.75	EA901016	I2
IDDXF-54-3.7	3-3	400V	54	3.7	1.5	EA901017	I2
IDDXF-54-5.3	3-3	400V	54	5.3	2.2	EA901018	I2
IDDXF-54-7.2	3-3	400V	54	7.2	3.0	EA901019	I2
IDDXF-54-9	3-3	400V	54	9	4.0	EA901020	I2
IDDXF-54-12	3-3	400V	54	12	5.5	EA901021	I3
IDDXF-54-15.5	3-3	400V	54	15.5	7.5	EA901022	I3
IDDXF-54-23	3-3	400V	54	23	11.0	EA901023	I4
IDDXF-54-31	3-3	400V	54	31	15.0	EA901024	I4
IDDXF-54-37	3-3	400V	54	37	18.5	EA901025	I4
IDDXF-54-42.5	3-3	400V	54	42.5	22.0	EA901026	I6
IDDXF-54-61	3-3	400V	54	61	30.0	EA901027	I6
IDDXF-54-73	3-3	400V	54	73	37.0	EA901028	I6
IDDXF-54-90	3-3	400V	54	90	45.0	EA901029	I7
IDDXF-54-106	3-3	400V	54	106	55.0	EA901069	I7
IDDXF-54-147	3-3	400V	54	147	75.0	EA901070	I8
IDDXF-54-177	3-3	400V	54	177	90.0	EA901071	I8

Please note:

If running in hand (manual) mode a external link is required between 12 and 27. If running in auto mode a external link is required between 12 and 18.



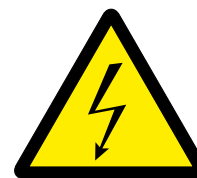
Description	FWG Part
Local Control Panel	EA901031
Local Control Panel mounting kit inc. 3m cable	EA901032
Decoupling plate H1 & H2	EA901033
Decoupling plate H3	EA901034
Decoupling plate H4 & H5	EA901035
IP21 option H1	EA901036
IP21 option H2	EA901037
IP21 option H3	EA901038
IP21 option H4	EA901039
IP21 option H5	EA901040

COMPATIBILITY

Please refer to the specific instructions & software supplied with each drive.



General danger

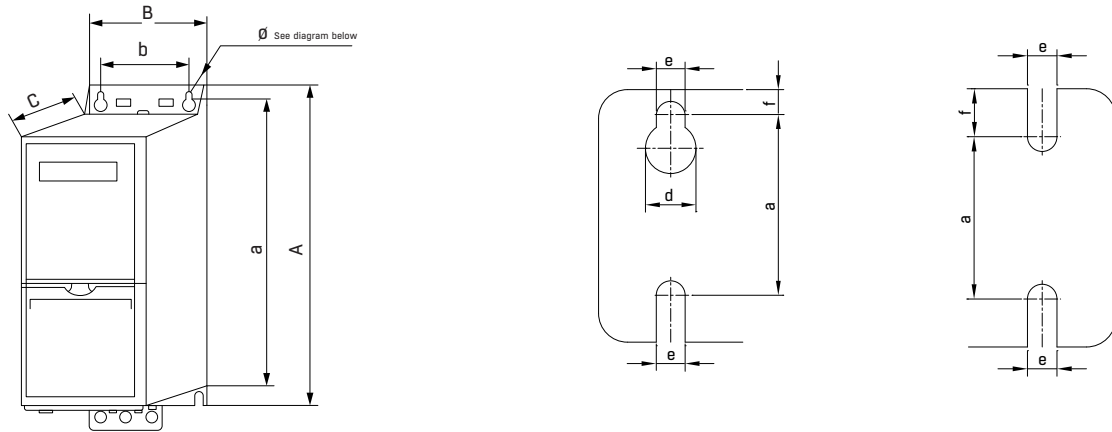


Electrical hazard

All works may only be carried out by skilled personnel following the local regulations, reference to the installation guide and AFTER the controller is completely isolated from the mains.



DIMENSIONS AND WEIGHTS



Enclosure	Power [kW]	Height [mm]	Width [mm]	Depth [mm]	Mounting hole [mm]	Max Weight
Frame IP Class	3x 380-480 V A	"A incl Decoupling Plate"	a B b	c d	e f	kg
I2 IP54	0.75-4.0	332	318.5 115 74	225 11	5.5 9	5.3
I3 IP54	5.5-7.5	368	354 135 89	237 12	6.5 9.5	7.2
I4 IP54	11-18.5	476	460 180 133	290 12	6.5 9.5	13.8
I5 IP54	11-18.5	480	454 242 210	260 19	9 9	23
I6 IP54	22-37	650	624 242 210	260 19	9 9	27
I7 IP54	45-55	680	648 308 272	310 19	9 9.8	45
I8 IP54	75-90	770	739 370 334	335 19	9 9.8	65

WIRING DIAGRAM

