

Totally enclosed box type for IP54/UL type 12



Line-up

Voltage class	Applicable Motor Output (kW)																
	0.4	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90
3-phase 400V class (IP54)																	

point 1

Totally enclosed box type for IP54/UL type 12

- IP54 protection for direct mounting on a wall

point 2

High-frequency noise reduction

- IP54 product with EN 55011 class A or class B (IEC/EN 61800-3) built-in EMC filters

point 3

Harmonics reduction

- New types of compact and space-saving DC reactor is built-in for all models

point 4

LCD keypad as standard

- Possible for palm top operation

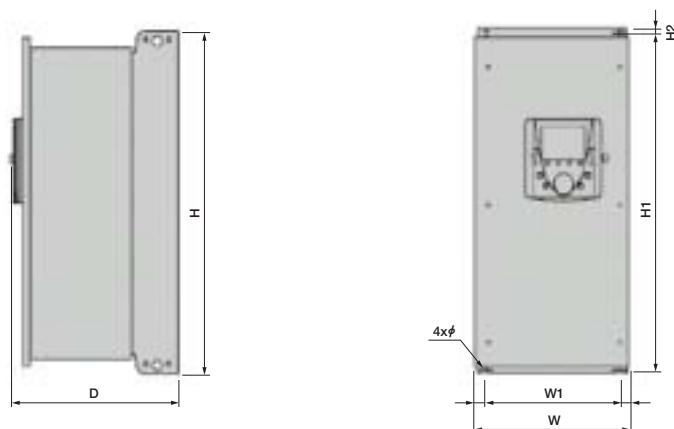
Standard specifications

Item	Specification																
Applicable motor (kW)	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	
Model	Type	VFPS1															
	Form	4007PLE 4007PDE	4015PLE 4015PDE	4022PLE 4022PDE	4037PLE 4037PDE	4055PLE 4055PDE	4075PLE 4075PDE	4110PLE 4110PDE	4150PLE 4150PDE	4185PLE 4185PDE	4220PLE 4220PDE	4300PLE 4300PDE	4370PLE 4370PDE	4450PLE 4450PDE	4550PLE 4550PDE	4750PLE 4750PDE	4900PLE 4900PDE
Rating	Capacity(KVA)Note 1)	1.8	3.1	3.9	6.9	9.1	12.0	17.0	23.0	28.0	33.0	45.0	54.0	65.0	78.0	104.0	124.0
	Output current(A) Note 2)	2.3	4.1	5.1	9.1	12	16	22.5	30.5	37	43.5	58.5	71.5	85	103	137	163
Power supply	Voltage/frequency	3-phase 380 to 480V, 50/60 Hz															
	Tolerance	Voltage +10%, -15% ($\pm 10\%$ during continuous 100% load) Frequency $\pm 5\%$															
Rated output voltage	3 phase 380 to 480V : 400V class (The maximum output voltage is same as the input source voltage)																
Output frequency range	0.01 to 500 Hz (Default setting 0.01 to 80.0 Hz)																
Overload current rating	110%-60 seconds (Anti-time limit characteristic)																
Dynamic breaking circuit	Built-in dynamic breaking circuit																
Dynamic breaking resistor	External option																
Main functions	Parameter setup quick mode, Local/remote operation, Automatic energy saving mode, programmable I/O terminal block, multi-PID control, Fire control enables forced operation, My function"																
Ambient temperature /Relative humidity	-10 to 50°C (current decreases when over 40°C)/5 to 95% (no condensation or steam allowed)																
Protective method	IP54/UL type 12																
Cooling method	Forced air cooling																
Built-in filter	EN55011 class A, EN61800-3 category C2 or C3 compliant (built-in EMI noise filter) :PLE type EN55011 class B, EN61800-3 category C1 compliant (built-in EMI noise filter) :PDE type "																
Reactor	Built-in DC reactor																

Note 1) Capacity is calculated at 440V

Note 2) Rated output current when the PWM carrier frequency(parameter CF) is 8kHz or less.

External dimensions



Input voltage Class	Applicable motor (kW)	Inverter model Note 1	Dimensions (mm)							Approximate Weight(kg) Note 1
			W	H	D	W1	H1	H2	φ	
3-phase 400 V	0.75	VFPS1-4007PLE(PDE)	240	490	272	200	476	6	6	12(14)
	1.5	VFPS1-4015PLE(PDE)								
	2.2	VFPS1-4022PLE(PDE)								
	3.7	VFPS1-4037PLE(PDE)	240	490	286	200	476	6	6	13(15)
	5.5	VFPS1-4055PLE(PDE)								
	7.5	VFPS1-4075PLE(PDE)	260	525	286	220	511	6	6	16(19)
	11	VFPS1-4110PLE(PDE)								
	15	VFPS1-4150PLE(PDE)	295	560	315	250	544	8	6	21(25)
	18.5	VFPS1-4185PLE(PDE)								
	22	VFPS1-4220PLE(PDE)	315	665	315	270	647	10	6	31(36)
	30	VFPS1-4300PLE(PDE)								
	37	VFPS1-4370PLE(PDE)	285	720	315	245	700	10	7	34(39)
	45	VFPS1-4450PLE(PDE)								
	55	VFPS1-4550PLE(PDE)	362	880	343	245	860	10	7	43(49)
75	VFPS1-4750PLE(PDE)									
90	VFPS1-4900PLE(PDE)									

Note 1) The values in parentheses refer to PDE type,

VFPS1-****PLE:Built-in class A EMC filter, VFPS1-****PDE:Built-in class B EMC filter