

Frequency Inverter L300IP Series

Frequency Inverter Series IP 54

HITACHI
Inspire the Next



- Capacity Range: 1.5-132 kW
 - Quick Stop Function
 - User Macro Function
 - Auto-Energy Saving
 - PID Control
 - Automatic Voltage Regulation
 - Motor Synchronization
 - Motor Potentiometer
 - Motor Thermistor Input
 - RS485 and RS422 Interfaces
 - Fieldbus Interfaces for Profibus, DeviceNet, CANopen (optional)
 - Digital Display
 - Integrated EMC-Filter
 - Meets CE Standards
- and many more

Frequency Inverter L300IP Series

Frequency Inverter Series IP 54

HITACHI
Inspire the Next

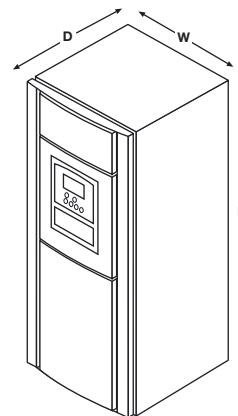
All features at a glance

Inverter L300IP	400 V - Series																
	015 HFE2	022 HFE2	040 HFE2	055 HFE2	075 HFE2	110 HFE2	150 HFE2	185 HFE2	220 HFE2	300 HFE2	370 HFE2	450 HFE2	550 HFE2	750 HFE2	900 HFE2	1100 HFE2	1320 HFE2
Applicable motor (kW)	1.5	2.2	4.0	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110	132
Rated output current (A)	3.8	5.3	8.6	12	16	22	29	37	43	57	70	85	105	135	160	195	230
Rated input voltage	3 ~ 380 ... 400 V (optional 480 V), ±10 %, 50/60 Hz																
Rated output voltage	3 ~ 380 ... 400 V (corresponding to input voltage)																
Output frequency range	0.1...400 Hz																
Frequency accuracy (at 25 °C ±10 °C)	Analogue setting: ±0.2 %, digital setting: ±0.01 %																
Frequency setting resolution	Analogue setting: Maximum frequency/4000, digital setting: 0.01Hz																
V/f characteristics	Constant torque, reduced torque, free setting curve																
Overload capacity	120 % for 60 s, 150 % for 0.5 s																
Acceleration/deceleration time	0.01 - 3600 sec. (linear/curve, accel./decel. selection), two stage accel./decel.																
Braking	Dynamic braking	Built-in BRD circuit (optional resistor) up to 15 kW															
	DC braking	Braking force, time and operating frequency															
Inputs	Intelligent input terminals	5 inputs, No or NC, PNP- or NPN-logic															
	Analogue inputs	3 inputs, 0...10 V, 0/4...20 mA, -10...+10 V															
Outputs	Analogue outputs	3 outputs, 0-10 Volt, 4-20 mA., PWM 0-10 V															
	Relay outputs	2 relays single contact, 1 relay changeover contact															
PID loop operation	Air velocity, temperature etc.																
Thermal motor protection	Thermistor input PTC or NTC																
Serial port	RS485, RS422																
Remote control up and down	Integrated motorised potentiometer with/without setpoint storage																
Bus systems (optional)	Profibus, LonWorks, DeviceNet																
Standards	CE, UL, cUL, c-Tick																
Protection	Overcurrent, overvoltage, undervoltage, overload, extreme high temperature, ground fault protection at startup, electronic thermal overload protection etc.																
Environmental conditions	Temperature / humidity	-10...+50 °C temperature*, 25...90 % humidity (non condensing)															
	Vibration / location	5.9 m/s ² L300P-015...300 HFE, 2.94 m/s ² L300P-370...1320 HFE, 10...55 Hz, altitude 1000 m or less indoors* ¹ , no corrosive gases or dust															
Standards	CE, UL, cUL, c-Tick																
Options	Remote operator unit, Profibus, Devicenet, LonWorks EMI filter, AC reactor, DC reactor																
Protection class	IP54 Metal housing with protection class IP54 with integrated line filter class „B“																
Weight kg (approx.)	22			23			41			67			81			160	

* 50 °C with derating
*¹ IP54 or equivalent

L300IP Series Dimensions

L300IP		015 HFE2	075 HFE2	185 HFE2	370 HFE2	450 HFE2	900 HFE2
		022 HFE2	110 HFE2	220 HFE2		550 HFE2	1100 HFE2
		040 HFE2	150 HFE2	300 HFE2		750 HFE2	1320 HFE2
		055 HFE2					
Width	mm	316	316	368	422	498	580
Height	mm	680	680	820	970	1070	130
Depth	mm	335	335	360	376	433	44



Hitachi Europe GmbH

Am Seestern 18 · D-40547 Düsseldorf
Tel. +49-211-52 83 -0 · Fax +49-211-52 83 -649
Internet: www.hitachi-ds.com
E-Mail: info@hitachi-ds.com

