

Elevator Drive L1000A 5 to 200 HP

The L1000A incorporates innovative technology and uses special hardware designed for more than 70,000 hours of maintenance free operation. It provides advanced control functions to run induction and PM (permanent magnet) motor applications in geared and gearless elevator systems.

Based on many years of experience and application oriented innovation, the L1000A provides high-performance characteristics offering a set of attractive features: energy and life-cycle-cost efficiency, simple and stress-free setup, and safe and comfortable rides.

The L1000A Drive Series is a dedicated drive for elevator applications suitable for both modernization projects and new installations.

Yaskawa L1000A offers real choices and real benefits for elevator applications.

- Advanced motor and drive technology for gearless PM motor control
- Features to reduce floor-to-floor times
- Low carrier frequency based current ratings for quiet operation
- Elevator language and units for speed, accel/decel and jerk rates
- Various types of auto-tuning for induction and gearless permanent magnet motors (uncoupled/coupled)
- Built-in braking transistor for all models up to 40HP
- System inertia compensation
- Torque compensation at start without load sensor (anti-rollback)
- Simple and efficient brake sequence
- Input voltage sensors for phase loss detection
- Powerful interface capability for simple elevator controller integration
- De-magnetization protection for PM motor
- New light load function for UPS (Uninterrupted Power Supply)
- Rescue operation function
- ON/OFF and Temperature controlled cooling fan
- Service performance monitors
- Removable multi-function terminal board with parameter back up function
- CAN/CSA-B44.1/ASME-17.5



Options

- EMC Filter
- Network Communications: CANopen and more
- Encoder Feedback: Incremental, EnDat, HEIDENHAIN ERN1387/487
- RC5 Regenerative Unit

Elevator Drive L1000A

5 to 200 HP

Specifications & Dimensions

OVERLOAD CAPACITY

150% Overload for 60 sec. (Heavy Duty)

OUTPUT FREQUENCY

0-120 HZ

CONTROL METHODS

Open Loop Current Vector Control, V/f Control,
Flux Vector Control, PM Flux Vector Control

PROTECTIVE DESIGN

IP20/IP00 WITH TOP COVER

GLOBAL CERTIFICATION

CE, UL, CUL, CAN/CSA-B44.1/ASME-17.5

AVAILABLE I/O

(8) multi-function digital inputs
(2) multi-function +/- analog inputs
(3) multi-function relay output
(2) multi-function photo-coupler outputs
(2) multi-function +/- Vdc analog outputs
(1) fault relay
(2) safe disable inputs
(1) safety electronic device monitor

NETWORK COMMUNICATION

Standard: RS-422/485 MODBUS 115.2 kbps
Optional: CANopen, and more

KEYPAD OPERATOR

Standard multi-lingual, full-text remote LCD
Copy function

Rated Input Voltage	Motor Capacity		Current		Dimensions in Inches			Figure
	HP	kW	Output (Amps)	Overload (150%, 60 sec)	Width	Height	Depth	
200 to 240 VAC	5	3.7	17.5	26	5.5	10.2	6.5	1
	7.5	5.5	25	38	5.5	10.2	6.6	
	10	7.5	33	50	5.5	10.2	6.6	
	15	11	47	71	7.1	11.8	7.4	
	20	15	60	90	8.7	13.8	7.8	
	25	18.5	75	113	8.7	13.8	7.8	2
	30	22	85	128	9.8	15.7	10.2	
	40	30	115	173	10.8	17.7	10.2	
	50	37	145	218	12.8	21.7	11.1	
	60	45	180	270	12.8	21.7	11.1	
	75	55	215	323	17.7	27.8	13	3
	100	75	283	425	17.7	27.8	13	
	125	90	346	519	19.7	31.5	13.8	
	150	110	415	519	19.7	31.5	13.8	
380 to 480 VAC	5	3.7	9.2	14	5.5	10.2	6.5	1
	7.5	5.5	14.8	22	5.5	10.2	6.6	
	10	7.5	14.8	22	5.5	10.2	6.6	
	15	11	18	22	5.5	10.2	6.6	
	20	15	31	47	7.1	11.8	6.6	
	25	18.5	39	59	8.7	13.8	7.8	2
	30	22	34	68	9.8	15.7	10.2	
	40	30	60	90	10.8	17.7	10.2	
	50	37	75	113	12.8	20.1	10.2	
	60	45	91	137	12.8	20.1	10.2	
	75	55	112	168	12.8	21.7	11.1	3
	100	75	150	225	12.8	21.7	11.1	
	125	110	216	324	19.7	31.5	13.8	
	200	160	260	390	19.7	31.5	13.8	

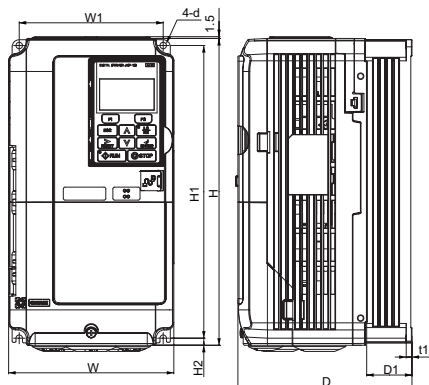


Figure 1

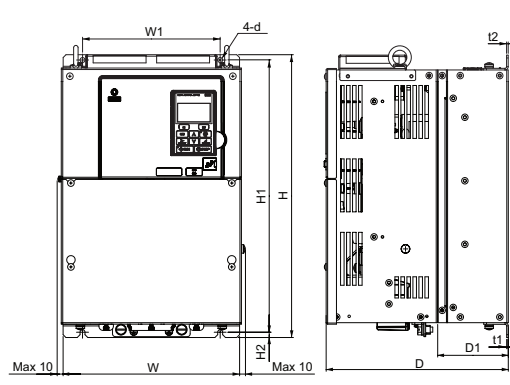


Figure 2

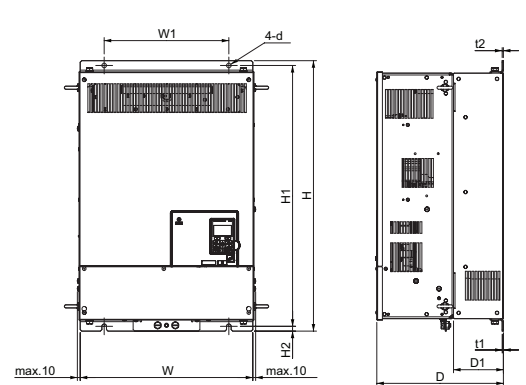


Figure 3