

L1000E ELEVATOR DRIVE (5-175 HP)



Overload Capacity

133% Overload for 30 sec. (Heavy Duty)

Output Frequency

0 to 200 Hz

Control Methods

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

Protective Design

IPO0/IP00 with top cover

Global Certification

UL, cUL, RoHS

Available I/O

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

Network Communication

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

Keypad Operator

LED Monitor panel

Options

- EMC Filter
- Encoder feedback: Incremental, EnDat, Heidenhain ERN1387/487
- R1000 regenerative unit
- LCD digital operator

The L1000E 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 years of experience and application-oriented innovation, the L1000E provides a set of attractive, high performance features: energy and life-cycle-cost efficiency, simple and stress-free setup, and safe and comfortable rides.

The L1000E Drive Series is a dedicated drive for elevator applications suitable for both modernization projects and new installations.

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 50HP
- 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
- 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
- Advanced high speed elevator control

L1000E RATINGS AND SPECIFICATIONS



Model: CIMR- LE□□□□	Motor Capacity		Current		Dimensions (inches)				
	HP	kW	Output (A)	Overload (133%, 60 s)	Fig. No.	H	W	D	
200 to 240 VAC Models	20018	5	3.7	18	24	1	10.2	5.5	6.5
	20022	7.5	5.5	22	29	1	10.2	5.5	6.6
	20031	10	7.5	31	41	1	10.2	5.5	6.6
	20041	15	11	41	55	1	10.2	5.5	6.6
	20059	20	15	59	78	1	11.8	7.1	7.4
	20075	25	18.5	75	100	1	13.8	8.7	7.8
	20094	30	22	94	125	1	13.8	8.7	7.8
	20106	40	30	106	141	2	15.7	9.8	10.2
	20144	50	37	144	192	2	17.7	10.8	10.2
	20181	60	45	181	241	3	21.7	12.8	11.1
	20225	75	55	225	299	3	21.7	12.8	11.1
	20269	100	75	269	358	3	27.8	17.9	13
	20354	125	90	354	471	3	27.8	17.9	13
20432	150	110	433	576	3	31.5	19.7	13.8	
380 to 480 VAC Models	40009	5	3.7	9	12	1	10.2	5.5	6.5
	40012	7.5	5.5	12	16	1	10.2	5.5	6.5
	40019	10	7.5	19	25	1	10.2	5.5	6.6
	40023	15	11	23	31	1	11.8	7.1	6.6
	40030	20	15	30	40	1	11.8	7.1	7.4
	40039	25	18.5	39	52	1	13.8	8.7	7.8
	40049	30	22	49	65	1	15.7	9.8	10.2
	40056	40	30	56	74	2	17.7	10.8	10.2
	40075	50	37	75	100	2	20.1	12.8	10.2
	40094	60	45	94	125	2	20.1	12.8	10.2
	40114	75	55	114	152	2	21.7	12.8	11.1
	40140	100	75	140	186	3	21.7	12.8	11.1
	40188	125	90	188	250	3	31.5	19.7	13.8
40225	150	110	225	299	3	31.5	19.7	13.8	
40260	175	132	260	346	3	31.5	19.7	13.9	

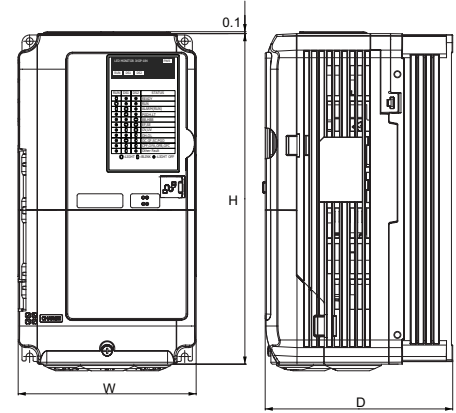


Figure 1

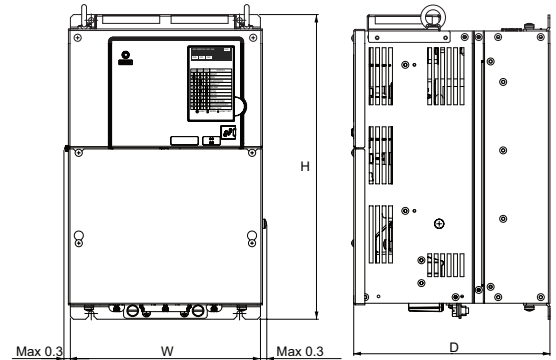


Figure 2

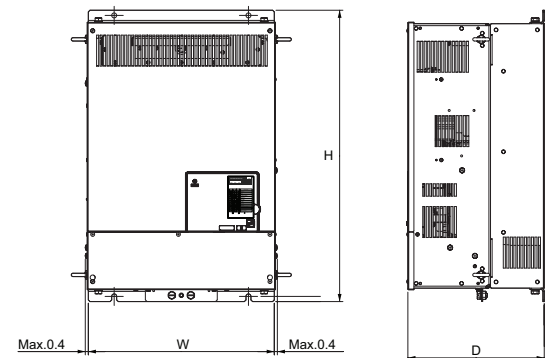


Figure 3

