

CONTROL SYSTEMS

LD800

LD800 SERIES VARIABLE FREQUENCY DRIVE

General purpose variable frequency drive with a 32-bit motor DSP, for speed and torque control of three-phase AC motors.

2.2-400 kW
MOTOR RATING

380 V
SUPPLY VOLTAGE

3 AC
PHASES

32-bit DSP
MOTOR PROCESSOR

SERIES
LD800

REVISION
A01

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DESCRIPTION

The LD series carries a 32-bit DSP processor dedicated to motor control. It is a high-performance, dependable and multi-function drive, used to control and regulate the speed and torque of three-phase AC motors. High-performance current vector control gives high torque at low speed, good dynamic torque response and strong overload capability.

The series is widely applicable and is in mature service across many industries. Optional expansion cards — PG, communication, I/O and dedicated-machine cards — suit it to a wider range of duties.

TECHNICAL SPECIFICATION

Motor rating	2.2 kW–400 kW (3 HP–450 HP)
Supply	Three-phase 380 V
Control method	High-performance current vector control
Expansion cards	PG card, communication card, I/O card, dedicated-machine card
Matched motors	Three-phase AC motors, induction or permanent magnet synchronous

MODEL DESIGNATION

The type designation is formed as follows, shown for **LD800-T3-011G/015PB**.

LD800	T	3	011G	015P	B
SERIES	PHASE	VOLTAGE	DUTY	RATING	BRAKE
Drive series	T = three-phase	3 = 380 V	G = heavy duty P = light load	Matched motor rating in kW 011 = 11 kW	blank = no brake unit B = with brake unit

READING A DESIGNATION

The type number states both the heavy-duty and the light-load motor rating, for example 011G / 015PB.

TYPICAL APPLICATIONS

- Petroleum
- Chemicals
- Textiles
- Building materials
- Pharmaceuticals
- Food
- Paper
- Plastics
- Dyeing and printing
- Hoisting
- Cable
- Water supply
- Machine tools
- HVAC
- Packaging
- Sewage treatment

NOTES

TERMINAL ARRANGEMENT

Frames 4T 0.75GB to 4T 75G bring out R S T PB P+ P- U V W. Frames 4T 90GB to 4T 400G bring out R S T U V W.

BRAKE UNIT ABOVE 160 KW

For machines of 160 kW and above, consult the manufacturer before connecting a braking unit.

RATED DATA

Ratings are for the standard 380 V, 50 Hz build. Other supply voltages and frequencies are built to order.

TYPE AND TECHNICAL DATA

DRIVE TYPE	SUPPLY CAPACITY kVA	INPUT CURRENT A	OUTPUT CURRENT A	MOTOR RATING kW	MOTOR RATING HP
LD800-T3-02.2G/03.0PB	4	5.8	5.1	2.2	3
LD800-T3-03.0G/04.0PB	4.7	8	7.2	3	4
LD800-T3-04.0G/05.5PB	6.5	10.5	10	4	5
LD800-T3-05.5G/07.5PB	8.9	14	13	5.5	7.5
LD800-T3-07.5G/011PB	11	20	17	7.5	10
LD800-T3-011G/015PB	17	26	25	11	15
LD800-T3-015G/018.5PB	21	35	32	15	20
LD800-T3-018.5G/022PB	24	39	37	18.5	25
LD800-T3-022G/030PB	30	47	45	22	30
LD800-T3-030G/037P	40	62	60	30	37
LD800-T3-037G/045P	57	76	75	37	45
LD800-T3-045G/055P	69	92	91	45	55
LD800-T3-055G/075P	85	113	112	55	75
LD800-T3-075G/090P	114	157	152	75	100
LD800-T3-090G/110P	134	180	176	90	125

TYPE AND TECHNICAL DATA (CONTINUED)

DRIVE TYPE	SUPPLY CAPACITY kVA	INPUT CURRENT A	OUTPUT CURRENT A	MOTOR RATING kW	MOTOR RATING HP
LD800-T3-110G/132P	160	214	210	110	132
LD800-T3-132G/160P	192	256	253	132	160
LD800-T3-160G/185P	231	307	304	160	185
LD800-T3-185G/200P	240	355	350	185	200
LD800-T3-200G/220P	250	385	380	200	220
LD800-T3-220G/250P	280	430	426	220	250
LD800-T3-250G/280P	355	468	465	250	280
LD800-T3-280G/315P	396	525	520	280	315
LD800-T3-315G/355P	445	590	585	315	355
LD800-T3-355G/400P	500	665	650	355	400
LD800-T3-400G/450P	565	785	725	400	450

MAIN CIRCUIT TERMINALS

TERMINAL	NAME
R S T	Three-phase supply input
U V W	Drive output
P+ P1	Linked at the factory
P+ P-	Common DC bus, positive and negative DC bus input/connection point for an external braking unit;160kWfor 160 kW and above, consult the manufacturer
P+ PB	Braking resistor terminals
—	Earth terminal

MOUNTING ARRANGEMENTS

The series is supplied in the following arrangements to IEC 60034-7. Letters on the drawings are the dimension symbols used in the outline and mounting dimension schedule.

ABOUT THESE DRAWINGS

The drawings show a representative frame for each arrangement and are not to scale. Dimensions for a specific frame size are given in the outline and mounting dimension schedule.

OUTLINE AND MOUNTING DIMENSIONS

The series is supplied in the IM B3 (foot), IM B5 (flange), IM B35 (foot and flange) mounting arrangements. The full outline and mounting dimension schedule for each frame — including flange details and tolerances — is issued on request and is not reproduced in this datasheet.

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Ratings and dimensions in this datasheet are taken from the LEADGO product brochure and are subject to change without prior notice as a result of continuous product development. Confirm the applicable data with the manufacturer before ordering or before modifying an existing installation.