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Product improvement is a continuous process. For the latest information and special applications, please contact any of our offices listed here.



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Ex2000 AC Drive for Fans & Pumps

Three Phase 415V (5.5 ~ 450kW)



Two decades of application knowledge

For over two decades, various industry sectors have been reaping the benefits of L&T's cost-effective, performance-oriented AC Drive solutions. L&T's grasp of the specific needs of each industry enables it to offer application-specific solutions for various industries – such as processing, textile, plastic, ceramic, pharmaceutical, elevator, oil & gas, power, cement and material-handling.



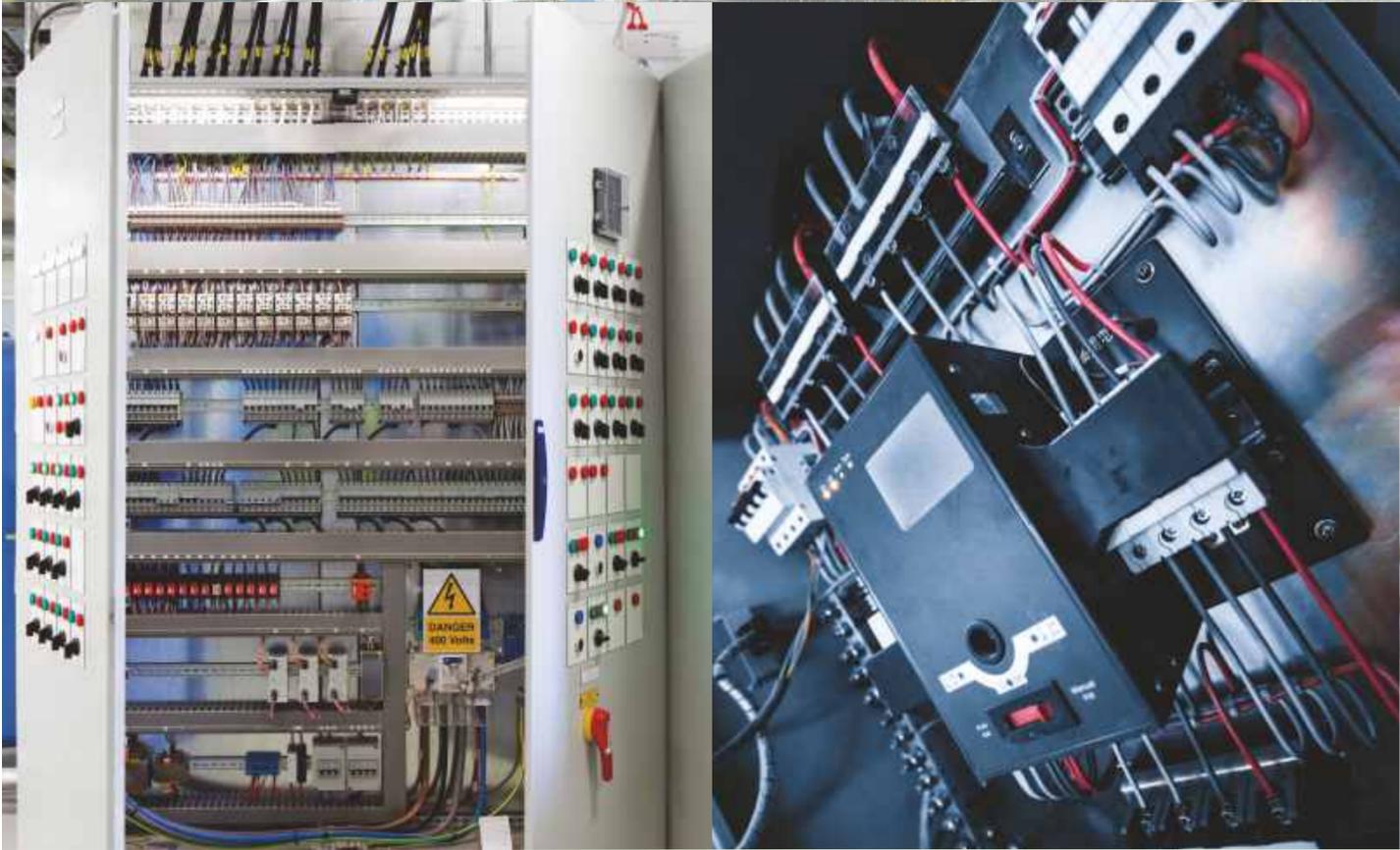
Ex2000 | AC Drive

› The new **reliability** edge

The Ex2000 adds a new dimension to L&T's AC drive solutions. Built to L&T's stringent quality standards, the Ex2000 is tested and certified to meet global benchmarks, thus giving you the assurance of total reliability.



Specially designed for industrial applications, the Ex2000 is perfectly suited for fan and pump applications. It can handle loads up to 450 kW, and is engineered to keep your machine operating at optimum efficiency – even in the hot, humid and dusty conditions that characterize India's industrial environment. It has features that save energy and cost, and is easy to operate.



➤ Meeting your needs, solving your problems

We believe in addressing your needs and not just selling a product. That's why a dedicated Solutions Team first focuses on understanding your application. Then helps you select the drive that best meets your needs. Our advice on installation, maintenance and replacement will ensure that your machines function at peak productivity. From engineer to repair technician, our people have the knowledge and skill-sets to deliver total peace of mind.

➤ Backed by engineering knowledge across seven decades

A knowledge-based company, L&T brings you the benefits of over 75 years of engineering experience and expertise, and the richness of its collaborations with technology leaders across the globe.

For 50 years, L&T's low-tension switchgear – India's widest range – has been the preferred option of top industrial houses countrywide.





› **Tested. Certified. Reliable.**

L&T is one of the few switchgear manufacturers in India with a dedicated, NABL-certified testing facility. Our products are tested for conformity to standards that exceed minimum requirements, giving you the assurance of high-quality performance. Our focus on continuous improvement ensures that our standards are on par with the best in the world. Repeat orders endorse the value that we deliver.

The reliability of the Ex2000 is ensured by international test certification – UL, CE and RoHS.

Ready Spares

➤ **After-sales service** aimed at maximum uptime

A malfunction of the drive can bring an entire assembly line or process to a halt. To ensure maximum uptime for you, our Rapid Response service team is available to analyze the situation and help you set the problem right. We have set up strategic service centres across the country to provide temporary replacement drives or ready spares to ensure that your business keeps running smoothly.

Rapid Response Service Team



➤ **Training your people** to enhance your operations

At our countrywide Switchgear Training Centres, we can train your operators, electricians and supervisors to increase their effectiveness in the operation, maintenance and trouble-shooting of your drives. We can also conduct in-plant training and workshops at your premises to improve both power management and equipment maintenance skills. This gives you total operational excellence, minimizing downtime.

L&T's engineers and channel partners also upgrade their skills through seminars, workshops, training sessions and white papers on electrical practices.

Features that ensure performance

- Specialized functions for fan & pump
- Energy-saving, high-efficiency
- Built-in Booster pump control
- Cascade PID
- Component Life Monitor
- VFD Bypass
- Removable control terminal
- Safety Stop



Ex2000

The energy-saving cost-effective solutions

Engineered for optimum efficiency of your machine

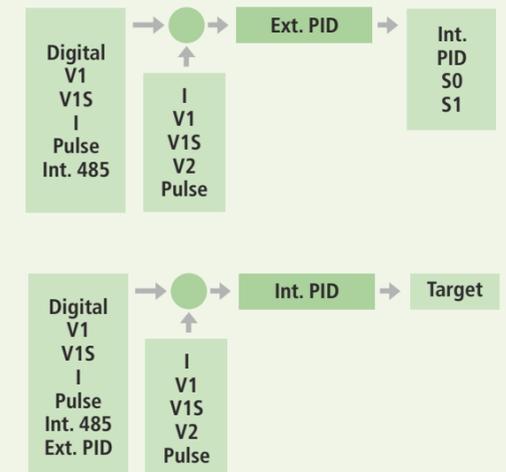


PID Control

In the centrifugal fan and pump, PID control is provided as a standard function in order to maintain a constant pressure, flow or level. This block includes pre-PID, sleep, wake-up and output inverse sub-functions.

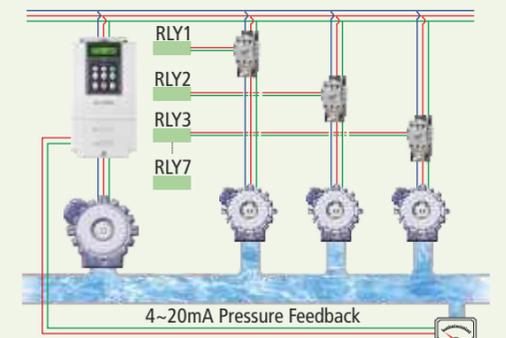
Dual PID

Where external or cascaded PID control is required, the built-in dual PID algorithm of the Ex2000 can be utilised to satisfy various system requirements.



Booster Pump Control (5.5~450kW)

The Ex2000 MMC function provides cost-effective, simultaneous control of multiple motors.





Convenient

Simple operation and easy maintenance features enhance your convenience.

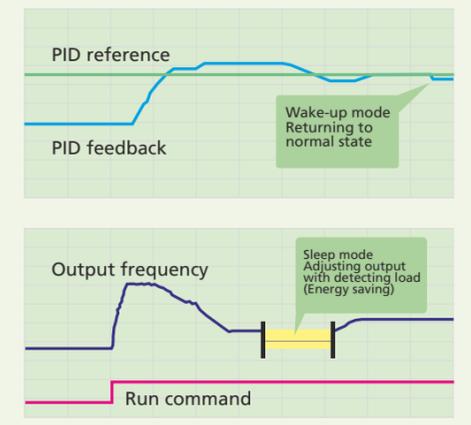


Energy Saver Ex2000

Energy Saving and High Efficiency

Sleep and Wake-up Function

Energy savings are obtained through the sleep and wake-up functions, which enable the drive to automatically switch off during user-programmed low-load conditions and then to start up again when process demand increases.



Pre Heating Function

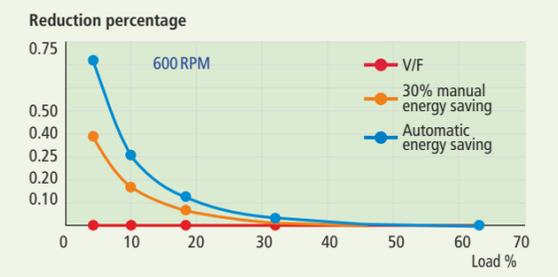
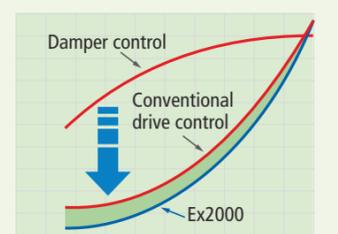
When using the drive in damp conditions, this function protects both the motor and the drive's output

Flying Start Function

The Ex2000 detects the motor speed after a momentary power failure, enabling the motors to be smoothly re-accelerated without mechanical and electrical shock-loading to the system.

Automatic Energy Saving

Load change may incur energy losses. But the optimised flux control of the Ex2000 results in more outstanding energy-saving compared to previous models.

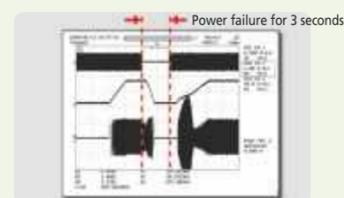
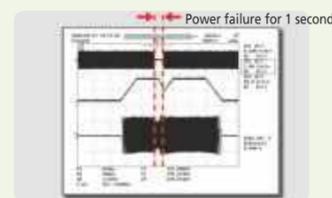
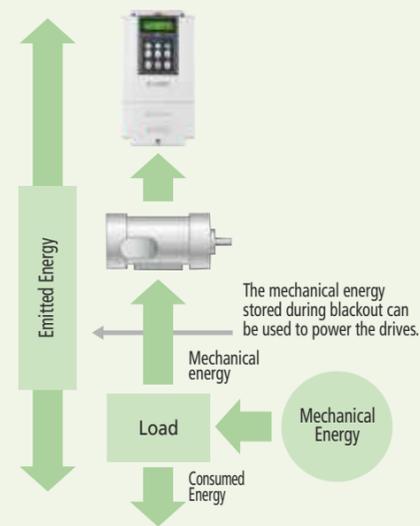


Constant and Stable Performance

Despite external voltage fluctuations, the Ex2000 optimises motor performance.

Improved System Management during Power Dips and Momentary Power Outages

During power dips or momentary power outage, the drive's output can be maintained by utilising the residual mechanical energy in the load as a regenerative source. The duration of the power-dip ride-through depends on the load characteristics.

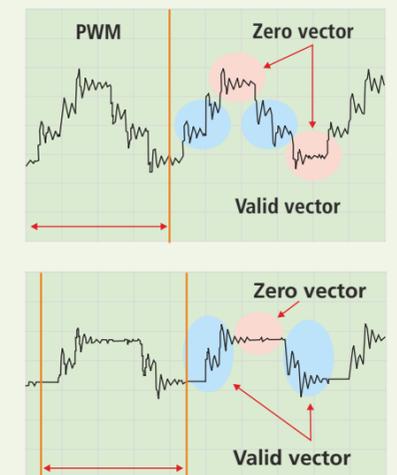


Safety Stop

During an unexpected power failure, the Ex2000 can bring the load to a controlled stop by utilising the inertial energy. This can prevent further process problems or accidents.

Current Leakage Reduction Algorithm

Under damp conditions, leakage currents can occur when using drives. These currents can cause a system failure. The Ex2000's low-leakage PWM algorithm reduces these leakage currents to ensure reliability of operation.



Flux Braking Algorithm

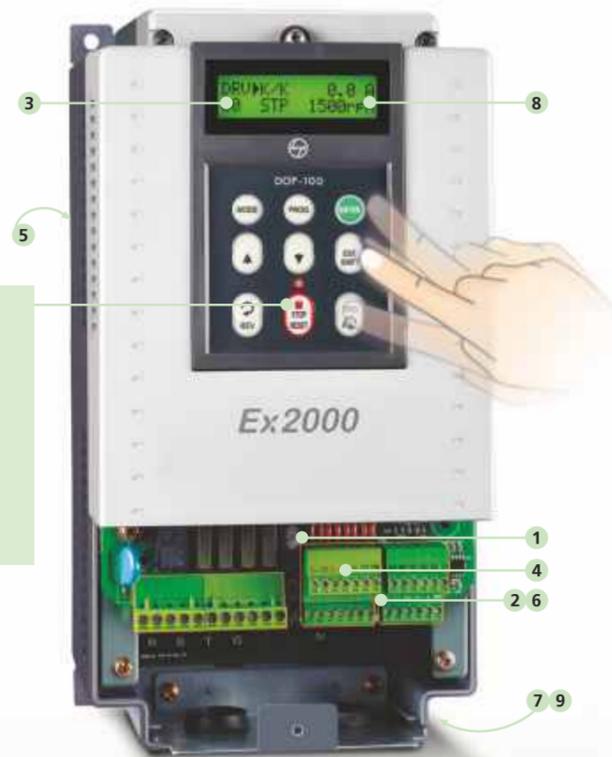
This algorithm reduces deceleration time, thus improving system efficiency.

Automatic Carrier Frequency Change

By taking ambient temperature into account, the Ex2000 can automatically adjust the carrier (modulation) frequency.

Protection

The Ex2000 has optimised protective functions, such as safety stop and pre-excitation of the motor.



Easy Start

To turn the drive into 'Easy Start Mode' with FWD, REV and STOP commands, just press the STOP key for 2~3 seconds. SHIFT/ESC can return it to the previous mode.
Control method: V/F
Control frequency: Jog

1 NPN/PNP Input

The Ex2000 has both NPN and PNP input, and you can easily select either.

2 Abundant I/O Suggestion

The Ex2000 serves abundant I/O.

Digital Input/Output	8 points / 5 points
Analog Input (Voltage + Current)/Output	(1+1) points / 4 points
Pulse Input	1 point
NTC/PTC Input	1 point

3 Various Units of I/O Display

The Ex2000 display can be calibrated in many different types of process units.

DRV_REF 500.0mBa	DRV_REF 500.0kPa
15 FBK 82.1mBa	15 FBK 82.1kPa

4 Built-in RS485 and Optional Communication Cards

The built-in RS485 allows for communication without external option. However, the optional communication boards enable the Ex2000 to talk to BMS and most industrial systems.

5 Long-life Capacitor and Simple Framework

The Ex2000 adopts a long-life capacitor and enables easy maintenance in a simple framework.

Consumption Time Display

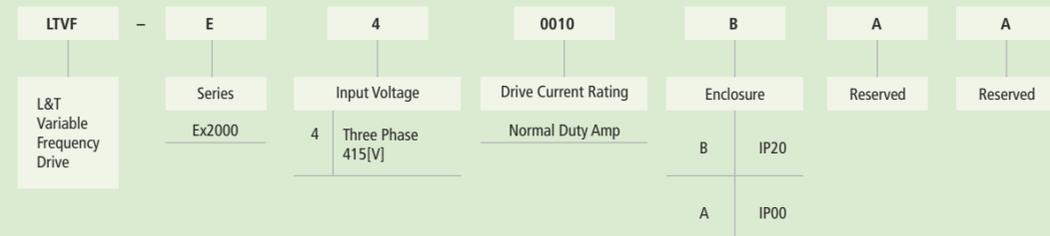
The Ex2000 displays consumption time of components so that users can replace them in time.

Others

- Removable terminal board
- External fan available
- Cooling fan on/off control



Motor Rating (Normal Duty)	Three-Phase 415V	Motor Rating (Normal Duty)	Three-Phase 415V
5.5kW (7.5HP)	LTVF-E40012BAA	75kW (100HP)	LTVF-E40152AAA
7.5kW (10HP)	LTVF-E40016BAA	90kW (125HP)	LTVF-E40183AAA
11kW (15HP)	LTVF-E40024BAA	110kW (150HP)	LTVF-E40223AAA
15kW (20HP)	LTVF-E40030AAA	132kW (200HP)	LTVF-E40264AAA
18.5kW (25HP)	LTVF-E40039AAA	160kW (250HP)	LTVF-E40325AAA
22kW (30HP)	LTVF-E40045AAA	220kW (300HP)	LTVF-E40432AAA
30kW (40HP)	LTVF-E40061AAA	280kW (350HP)	LTVF-E40547AAA
37kW (50HP)	LTVF-E40075AAA	315kW (400HP)	LTVF-E40613AAA
45kW (60HP)	LTVF-E40091AAA	375kW (500HP)	LTVF-E40731AAA
55kW (75HP)	LTVF-E40110AAA	450kW (600HP)	LTVF-E40877AAA



Input and Output: Input Voltage 415V (5.5~90kW)

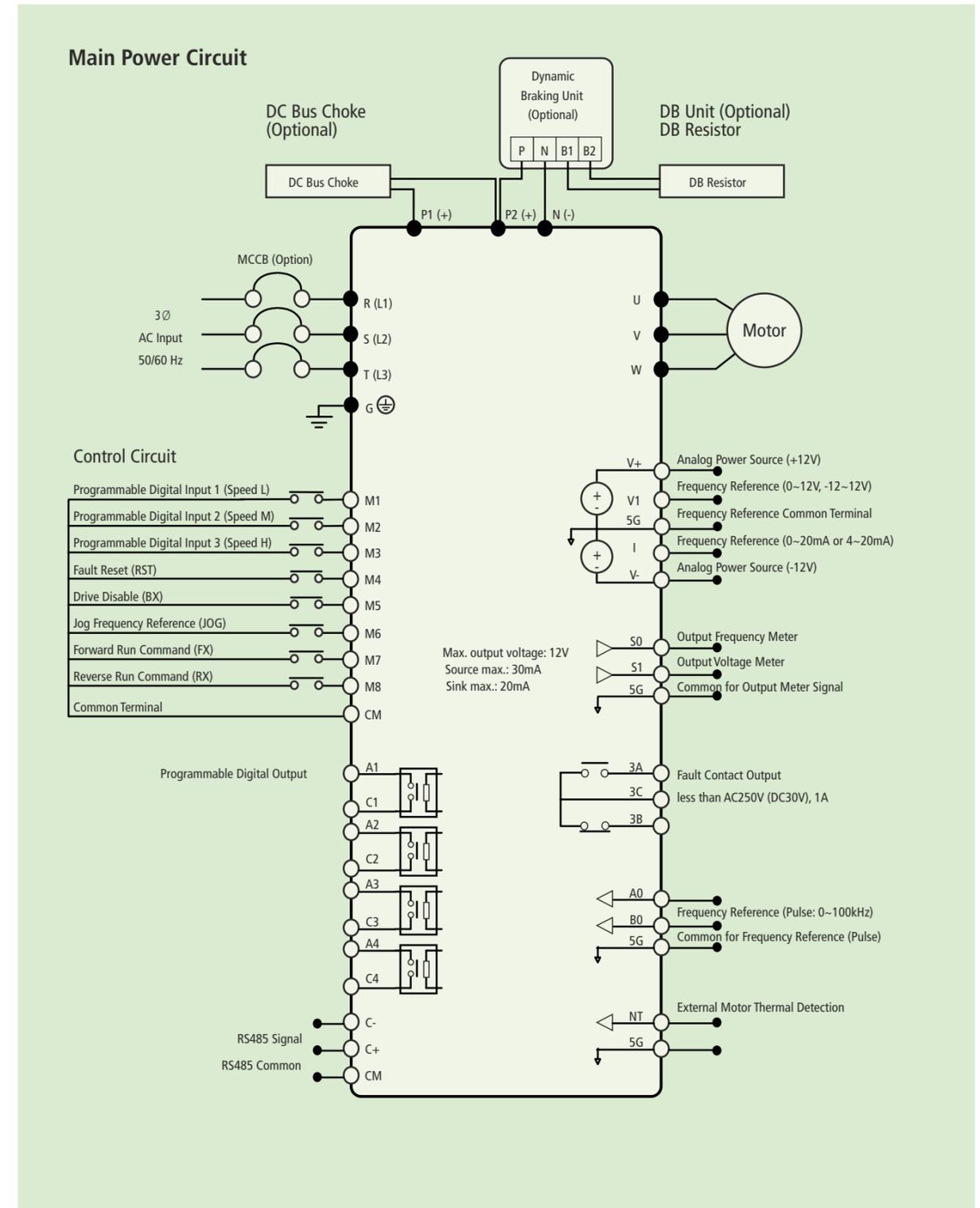
LTVF-E4 * * * * □ AA		0012	0016	0024	0030	0039	0045	0061	0075	0091	0110	0152	0183	
Capacity [kVA] ¹⁾		9.6	12.7	19.1	23.9	31.1	35.9	48.6	59.8	72.5	87.6	121.1	145.8	
Output ratings	Fan or pump load	Motor rating ²⁾ (HP)	7.5	10	15	20	25	30	40	50	60	75	100	125
		(kW)	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90
	Current [A]	12	16	24	30	39	45	61	75	91	110	152	183	
	(110% over current)		110% 1 Minute (Normal Duty)											
General load	Motor rating	(HP)	5.0	7.5	10	15	20	25	30	40	50	60	75	100
		(kW)	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75
	Current [A]	8.8	12	16	24	30	39	45	61	75	91	110	152	
	(150% over current)		150% 1 Minute (Heavy Duty)											
Frequency		0.01~120 Hz												
Voltage		380~480V ³⁾												
Input ratings	Voltage	3Ø 380~480V (-15%~+10%)												
	Frequency	50/60 Hz (± 5%)												
Protection degree		IP20						IP00						
DC Line Choke (DCL)		External Option						Built-in						

Input and Output: Input Voltage 415V (110~450kW)

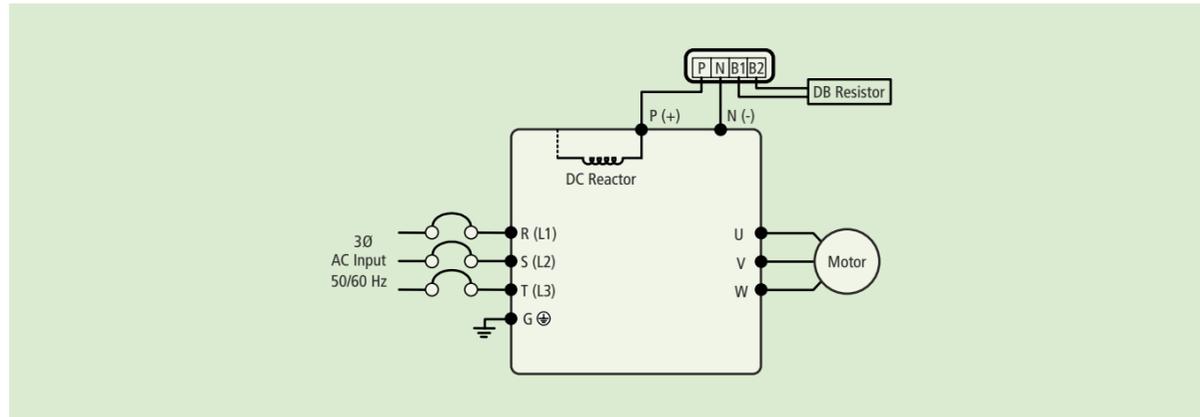
LTVF-E4 * * * * □ AA		0223	0264	0325	0432	0547	0613	0731	0877	
Capacity [kVA] ¹⁾		178	210	259	344	436	488	582	699	
Output ratings	Fan or pump load	Motor rating ²⁾ (HP)	150	200	250	300	350	400	500	600
		(kW)	110	132	160	220	280	315	375	450
	Current [A]	223	264	325	432	547	613	731	877	
	(110% over current)		110% 1 Minute (Normal Duty)							
General load	Motor rating	(HP)	125	150	200	250	300	350	400	500
		(kW)	90	10	132	160	220	280	315	375
	Current [A]	183	223	264	325	432	547	613	731	
	(150% over current)		150% 1 Minute (Heavy Duty)							
Frequency		0.01~120 Hz								
Voltage		380~480V ³⁾								
Input ratings	Voltage	3Ø 380~480V (-15%~+10%)								
	Frequency	50/60 Hz (± 5%)								
Protection degree		IP00								
DC Line Choke (DCL)		Built-in				External Option				

1) Rated capacity (1.732 x V x I) is based on 460V.
 2) Indicates the maximum applicable capacity when using a 4-Pole motor.
 3) Maximum output voltage will not exceed the input voltage. An output voltage less than the input voltage may be programmed if necessary.

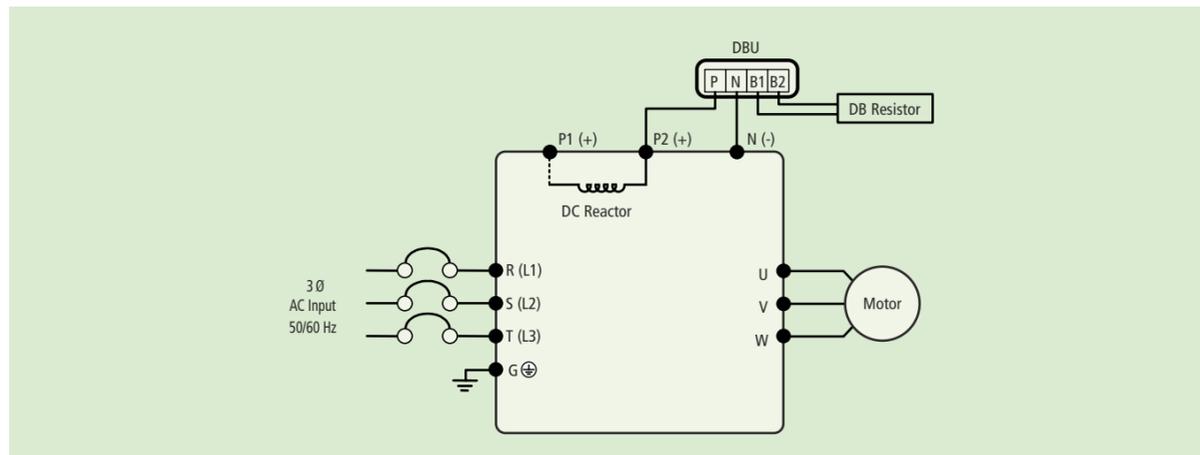
For 5.5 ~ 18.5kW (12 ~ 39Amp) & 315~450kW (617~ 877Amp)



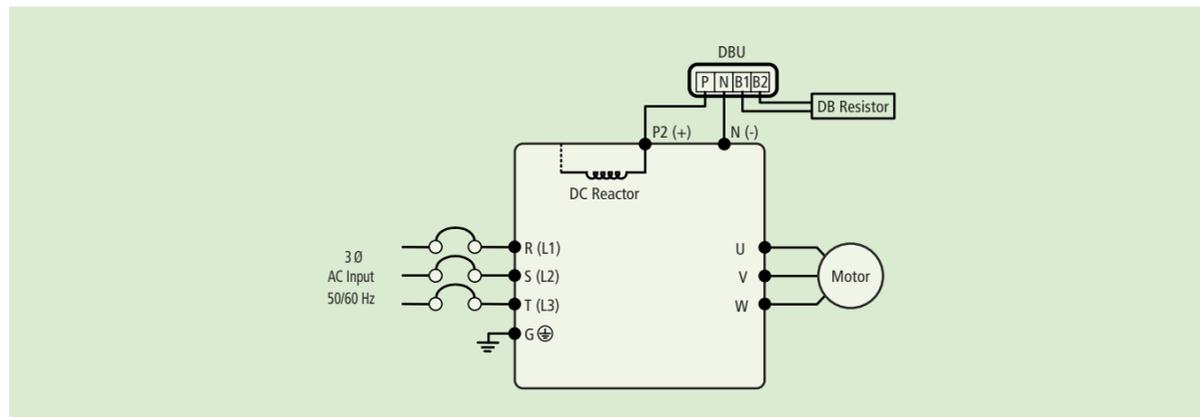
For 22 & 30kW - (45 ~ 61Amp) Built-in DCL



For 37 ~ 90kW - (75 ~ 183Amp) Built-in DCL

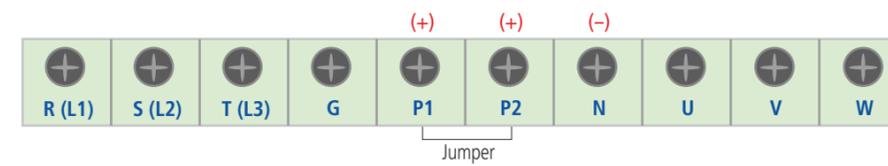


For 110 ~ 280kW - (223 ~ 547Amp) Built-in DCL

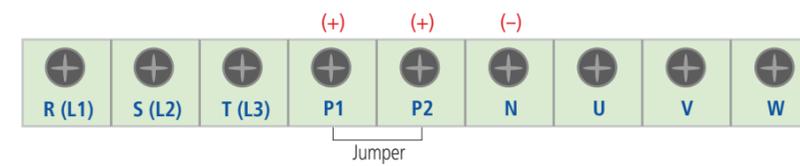


Note: Control Circuit Diagram remain the same

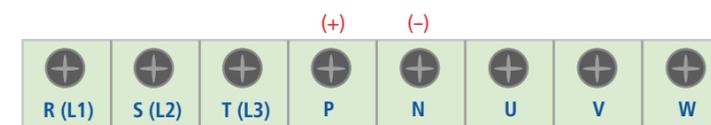
5.5~18.5kW - (12 ~ 39Amp)



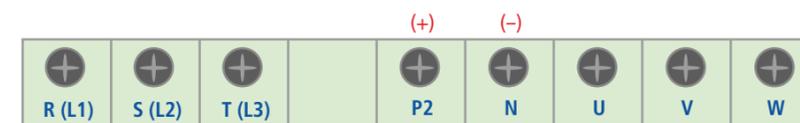
315~450kW - (613 ~ 877Amp)



22 & 30kW - (45 ~ 61Amp)



37 ~ 90kW - (75 ~ 183Amp) and 110 ~ 280kW - (223 ~ 547Amp)



Note: P1 (+) is not provided for wiring.

Symbol	Description
R, S, T (L1, L2, L3)	AC Line Voltage Input
G	Earth Ground
P1 (+), P2 (+)	External DC Reactor [P1 (+)-P2 (+)] Connection Terminals (Jumper must be removed).
P2 (+), N (-) or P (+), N (-)	DB Unit [P2 (+)-N (-)] Connection Terminals
U, V, W	3-Phase Power Output Terminals to Motor

Grounding

Drive Capacity		Grounding wire Sizes, kamil (mm ²)
kW	HP	
5.5 ~ 7.5	7.5 ~ 10	12 (3.5)
11 ~ 15	15 ~ 20	8 (8)
18.5 ~ 30	25 ~ 40	6 (14)
37 ~ 55	50 ~ 75	4 (22)
75 ~ 90	100 ~ 125	2 (38)
110 ~ 132	150 ~ 200	1/0 (60)
160 ~ 280	250 ~ 350	4/0 (100)
315 ~ 375	400 ~ 600	300 (150)
450	700	400 (200)

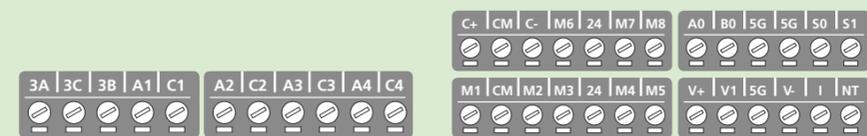
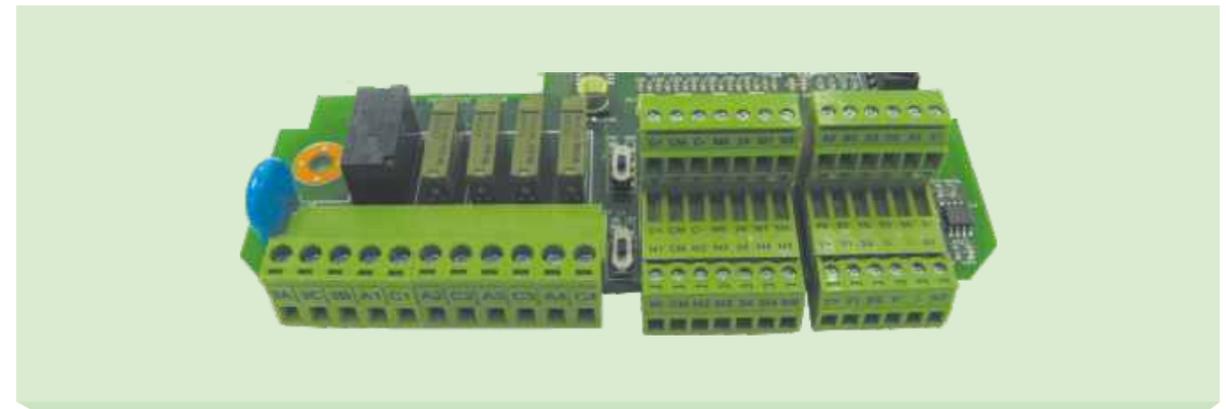
Wires & Terminal lugs

Refer to the table below for wires, terminal lugs, and screws used to connect the drive power input and output.

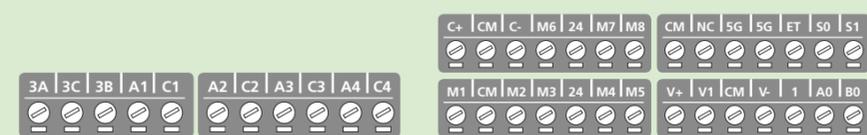
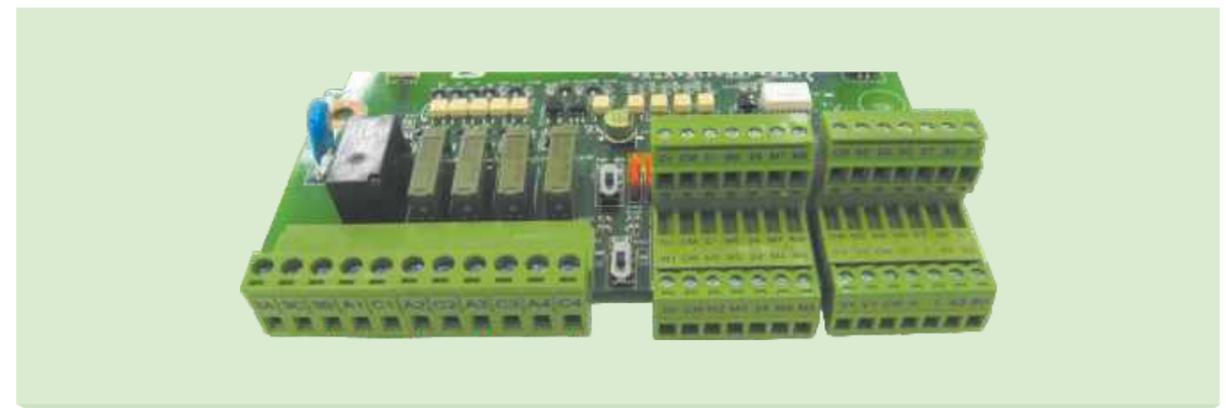
	Drive Cat. No.	Terminal screw size	Screw torque		Wire size			
			Kgf - cm	lb - in	R(L1), S(L2), T(L3)		U, V, W	
					mm ²	AWG	mm ²	AWG
400V Class	LTVF-E40012BAA	M4	7.1~12.2	6.2~10.6	3.5	12	3.5	12
	LTVF-E40016BAA	M4	7.1~12.3	6.2~10.7	3.5	12	3.5	12
	LTVF-E40024BAA	M4	7.1~12.4	6.2~10.8	5.5	10	5.5	10
	LTVF-E40030AAA	M6	30.6~38.2	26.6~33.2	8	8	8	8
	LTVF-E40039AAA	M6	30.6~38.3	26.6~33.3	14	6	14	6
	LTVF-E40045AAA	M8	61.2~91.8	53.1~79.7	22	4	22	4
	LTVF-E40061AAA	M8	61.2~91.8	53.1~79.7	22	4	22	4
	LTVF-E40075AAA	M8	61.2~91.8	53.1~79.7	38	2	38	2
	LTVF-E40091AAA	M8	61.2~91.9	53.1~79.8	38	2	38	2
	LTVF-E40110AAA	M8	61.2~91.9	53.1~79.8	38	2	38	2
	LTVF-E40152AAA	M10	89.7~122.0	77.9~105.9	60	1/0	60	1/0
	LTVF-E40183AAA	M10	89.7~122.0	77.9~105.9	60	1/0	60	1/0
	LTVF-E40223AAA	M12	182.4~122.0	158.3~186.6	100	4/0	100	4/0
	LTVF-E40264AAA	M12	182.4~122.0	158.3~186.6	100	4/0	100	4/0
	LTVF-E40325AAA	M12	182.4~122.1	158.3~186.7	150	300	150	300
	LTVF-E40432AAA	M12	182.4~122.2	158.3~186.8	200	12	3.5	12
	LTVF-E40547AAA	M12	182.4~122.3	158.3~186.9	250	12	3.5	12
	LTVF-E40613AAA	M12	182.4~122.4	158.3~186.0	325	12	3.5	12
LTVF-E40731AAA	M12	182.4~122.5	158.3~186.1	2x20	2x400	2x200	2x400	
LTVF-E40877AAA	M12	182.4~122.6	158.3~186.2	2x28	2x500	2x250	2x500	

- Apply the rated torque to terminal screws.
- Loose screws can cause of short circuit or malfunction. Tightening the screw too much can damage the terminals and cause a short circuit or malfunction.
- Use copper wires only with 600V, 75 °C ratings. For 7.5~11kW 240V type drives, R(L1), S(L2), T(L3) and U, V, W terminals are only for use with insulated ring type connector.

5.5~30kW / 7.5~40HP



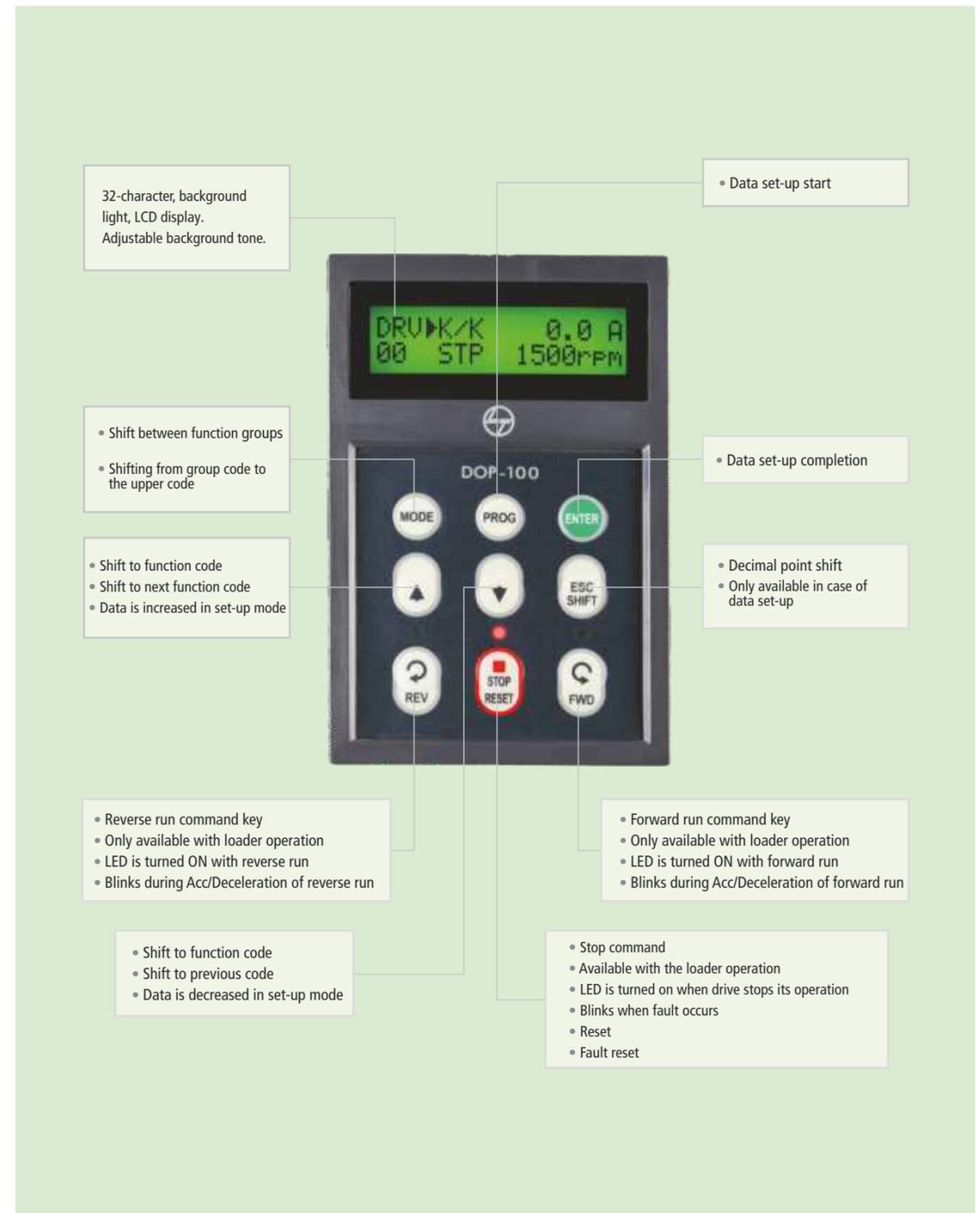
37~450 kW/50~600HP



Type	Symbol	Name	Description	
Input Signal	M1, M2, M3	Programmable Digital Input 1, 2, 3	Defines programmable digital inputs (Factory setting : Multi-step frequency 1,2,3)	
	FX [M7] Command	Forward Run	Forward run when closed and stopped when open	
	RX [M8] Command	Reverse Run	Reverse run when closed and stopped when open	
	JOG [M6]	Jog Frequency Reference	Runs at jog frequency when the jog signal is on. The direction is set by the FX (or RX) signal	
	BX [M5]	Emergency Stop	When the BX signal is ON, the output of the drive is turned off. When motor uses an electrical brake to stop, BX is used to turn off the output signal. Take caution when BX signal is off (Not turned off by latching) and FX signal (or RX signal) is on. Under these conditions, the motor will run!	
	RST [M4]	Fault Reset	Used for fault reset.	
	CM (NPN)	Sequence Common	Common terminal for NPN contact	
	24 (PNP)	Sequence Common	Common 24V terminal for PNP contact input. Maximum output : +24V, 100mA	
	Analog Frequency Setting	V+, V- (+12V, -12V)	Analog Power Source	Power supply for analog frequency setting. Maximum output : +12V, 100mA, -12V, 100mA
		V1 (Voltage)	Frequency Reference	Used by a DC 0~12V or -12~12V input to set the frequency reference. (Input impedance is 20k Ω)
		I	Frequency Reference (Current)	Used by a 0-20mA input to set the frequency reference. (Input impedance is 249Ω)
		A0, B0 (Pulse)	Frequency Reference	Used by a pulse input to set the frequency reference.
		5G (~30kW) CM (37kW~)	Frequency Reference Common Terminal	Common terminal for analog frequency reference signal
External Motor Thermal Detection	NT (~30kW) ET (37kW~)	External Motor Thermal Detection	Motor thermal sensor input. Used to prevent motor from overheating by using a NTC or PTC thermal sensor.	
	5G	Common for NT (or ET)	Common terminal for external motor thermal detection	
Built-in RS485 Terminal	C+, C-	RS485 signal High, Low	RS485 signal (See RS485 communication in manual for more details.)	
	CM	RS485 common	Common ground. Terminal for RS485 interface.	
Output Signal	Analog Output	S0, S1,	Voltage output for one of the following : Output frequency, output current, output voltage, DC link voltage. Default is set to output frequency. (Maximum output voltage and output current are 0-12V and 1mA)	
		5G	Analog Common Terminal	Common terminal for analog output (S0, S1)
	Contact	3A, 3C, 3B	Fault Contact Output	Energizes when a fault is present. (AC250V, 1A; DC30V, 1A) Fault : 3A-3C closed (3B-3C open) Normal : 3B-3C closed (3A-3C open)
		A1~4, C1~4 Digital	Programmable Output	Defined by programmable digital output terminal settings (AC250V, 1A or less; DC30V, 1A or less)

Note: NC terminal is unavailable

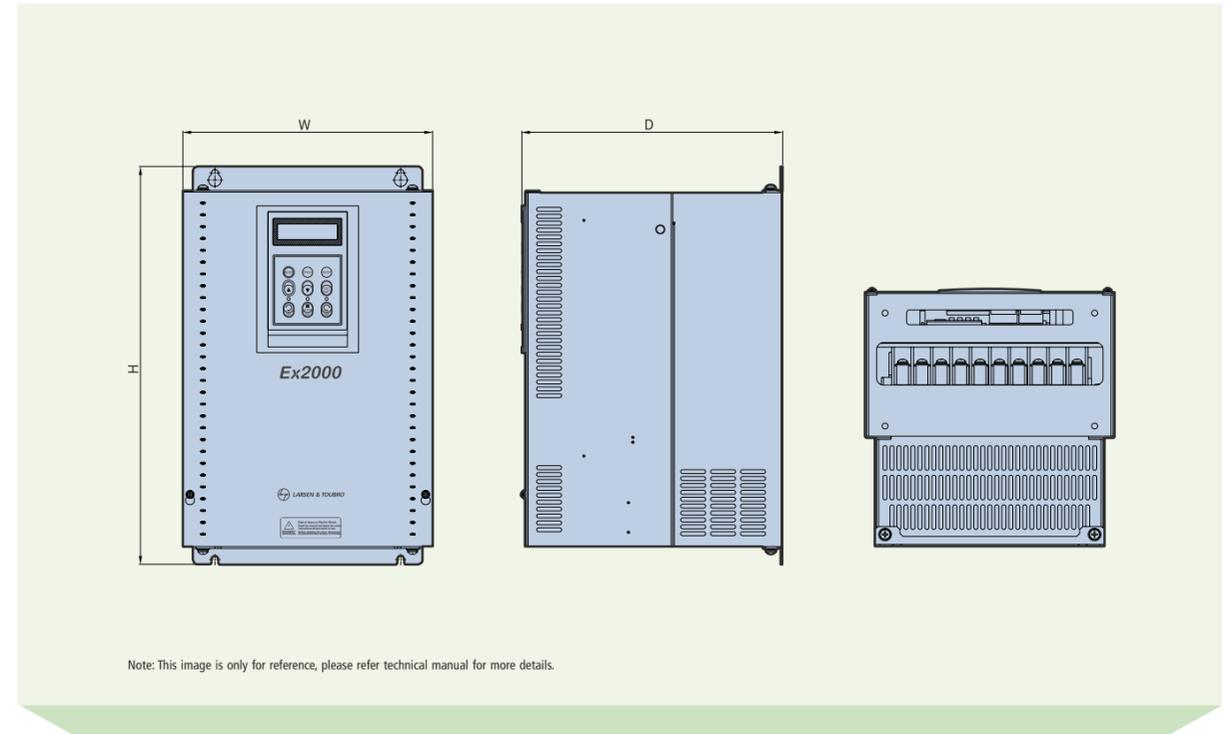
LCD Operator



Common Specifications (External)

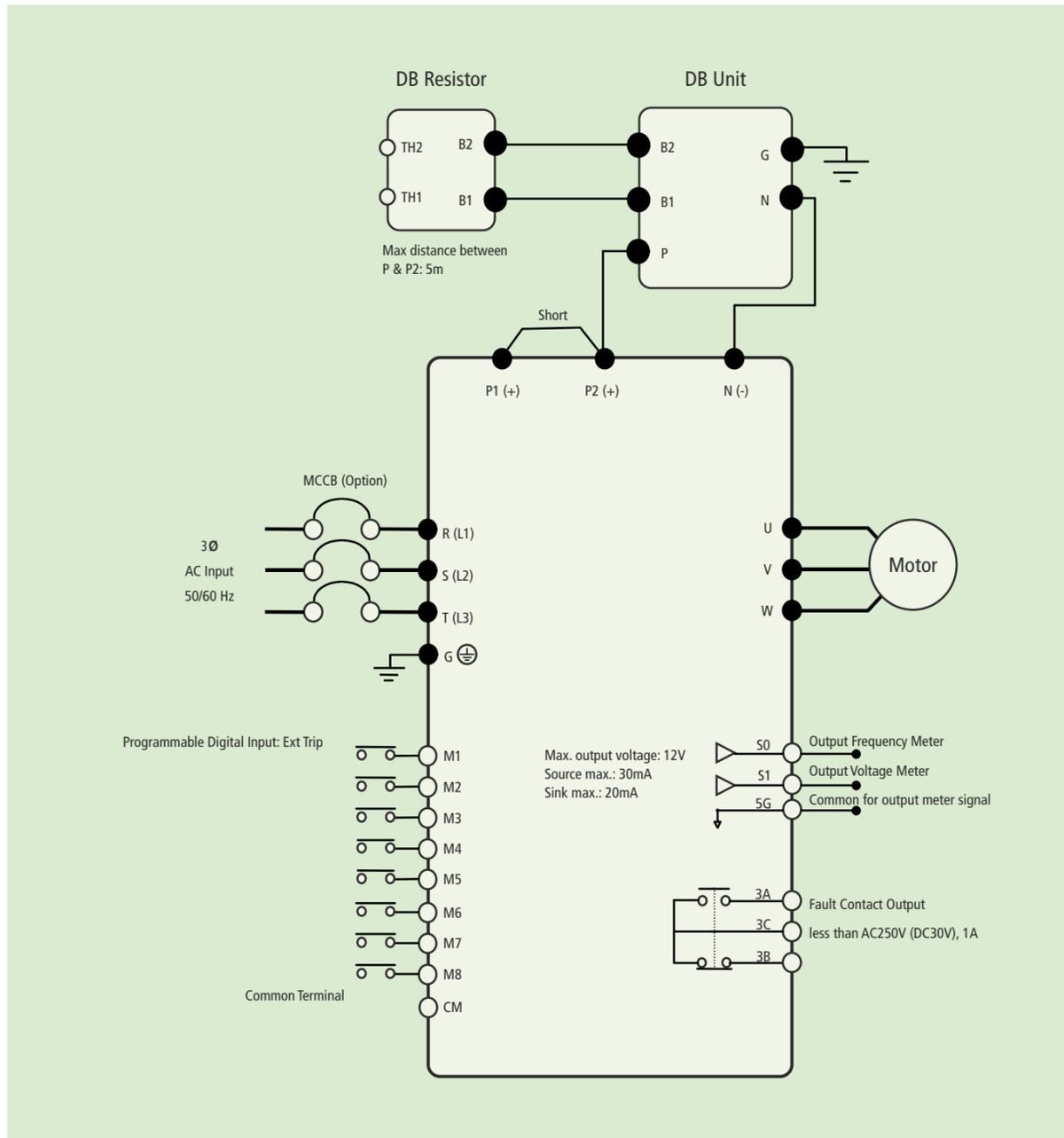
Keypad	LCD	32 character display keypad Download and Upload available	All units
Remote	Remote cable	2m, 3m and 5m long keypad cable enables users to control the drive from a distant area	Optional
Dynamic braking	DB resistor	To enhance the regenerative braking performance, it makes the drive to accelerate/decelerate rapidly	According to drive capacity
	DB unit	If it need a regenerative braking, it is used with DB resistor	
Communication option card	DEVICENET (LTCI-DEN-E)	DEVICENET optional communication card	All series (Above S/W V10)
	PROFIBUS (LTCI-PDP-E)	PROFIBUS optional communication card	All series (Above S/W V10)
	MODBUS_TCP (LTCI-TCP-E)	MODBUS_TCP optional communication card	All series (Above S/W V10)

5.5~450 kW, 415V



Drive Cat. No.	W (mm)	H (mm)	D (mm)	Weight (kg)
LTVF-E40012BAA	150	284	156.5	5
LTVF-E40016BAA	200	284	182	6.1
LTVF-E40024BAA	200	284	182	6.1
LTVF-E40030AAA	250	385	201	12.6
LTVF-E40039AAA	250	385	201	13.1
LTVF-E40045AAA	260	480	268.6	26.6
LTVF-E40061AAA	260	480	268.6	26.6
LTVF-E40075AAA	300	684	265.6	39
LTVF-E40091AAA	300	684	265.6	39.8
LTVF-E40110AAA	300	684	292.6	41.5
LTVF-E40152AAA	370	760	337.6	67
LTVF-E40183AAA	370	760	337.6	68
LTVF-E40223AAA	510	784	422.6	101
LTVF-E40264AAA	510	784	422.6	101
LTVF-E40325AAA	510	861	422.6	114
LTVF-E40432AAA	690	1,078.00	449.6	200
LTVF-E40547AAA	690	1,078.00	449.6	200
LTVF-E40613AAA	772	1,140.50	422	243
LTVF-E40731AAA	922	1,302.50	495	380
LTVF-E40877AAA	922	1,302.50	495	380

Wiring for DB unit and DB resistor (for 5.5~90kW/7.5~125HP drives)



DB resistor terminal	Description
B1, B2	Wire terminal properly based on wiring block diagram. Connect a DB resistor to the DB Unit's B1, B2 terminals.
TH1, TH2	Thermal sensor terminal of DB resistor. Normal temperature (Ambient): Contact ON (TH1-TH2 closed) DB resistor overheated: Contact OFF (TH1-TH2 open). Wire it to the drive terminal defined as 'External Trip'.

DBU and External DB resistor specification

The Ex2000 does not have built-in DB resistor on power stack as factory installation. External DB Unit (from 11kW) and Resistor (Optional) should be installed. Refer to the following table for more details (ED: 5%, Continuous Braking Time: 15 sec). If Enable duty (%ED) is increased to 10%, use an external DB resistor with double the wattage rating.

Applied motor capacity (kW/HP)	Operating rate (ED/Continuous Braking Time)	100 % Braking Torque		150% Braking Torque		DB Unit	
		[ohm]	[W]	[ohm]	[W]		
Three Phase 415V	5.5/7.5	5%/15 sec	120	700	85	1000	Built-in
	7.5/10	5%/15 sec	90	1000	60	1200	Built-in
	11/15	5%/15 sec	60	1400	40	2000	LTDBU-0150
	15/20	5%/15 sec	45	2000	30	2400	
	18.5/25	5%/15 sec	35	2400	20	3600	LTDBU-0220
	22/30	5%/15 sec	30	2800	20	3600	
	30/40	10%/6 sec	16.9	6400	-	-	LTDBU-0370
	37/50	10%/6 sec	16.9	6400	-	-	
	45/60	10%/6 sec	11.4	9600	-	-	LTDBU-0550
	55/75	10%/6 sec	11.4	9600	-	-	
	75/100	10%/6 sec	8.4	12800	-	-	LTDBU-0750
	90/125	10%/6 sec	8.4(2 nos.)	12800	-	-	

Note: Please contact your nearest L&T branch office for ratings from 110-450 kW

DBU Terminal Configuration



Terminals	Description	Terminals	Description
G	Ground terminal	CM	OH common
B2	Connect to DB Resistor's B2	OH*	Overheat trip output terminal (Open collector output: 20mA, 27V DC)
B1	Connect to DB Resistor's B1		
N	Connect to drive terminal N		
P	Connect to drive terminal P1		

➤ MCCB (Molded Case Circuit Breaker) and MC (Magnetic Contactor)

Voltage	Motor [kW]	Drive Cat. No.	MCCB (L&T)		MC (L&T)
			HD(Amp)	ND(Amp)	
Three Phase 415V	5.5	LTVF-E40012BAA	DM16/16	DM100/25	MO 25
	7.5	LTVF-E40016BAA	DM100/25	DM100/30	MO 25
	11	LTVF-E40024BAA	DM100/30	DM100/50	MO 32
	15	LTVF-E40030AAA	DM100/50	DM100/50	MO 50
	18.5	LTVF-E40039AAA	DM100/50	DM100/70	MO 70
	22	LTVF-E40045AAA	DM100/70	DM100/80	MO 80
	30	LTVF-E40061AAA	DM100/80	DN2-250M/100	MO 95
	37	LTVF-E40075AAA	DN2-250M/100	DN2-250M/125	MNX 140
	45	LTVF-E40091AAA	DN2-250M/125	DN2-250M/160	MNX 185
	55	LTVF-E40110AAA	DN2-250M/160	DN2-250M/200	MNX 225
	75	LTVF-E40152AAA	DN2-250M/200	DN3-400M/320	MNX 325
	90	LTVF-E40183AAA	DN2-250M/250	DN3-400M/320	MNX 400
	110	LTVF-E40223AAA	DN3-400M/320	DN3-400M/400	MNX 550
	132	LTVF-E40264AAA	DN3-400M/400	DN3-630M/500	MNX 650
	160	LTVF-E40325AAA	DN3-630M/500	DN3-630M/630	MNX 650
	220	LTVF-E40432AAA	DTH800/800	C-Power ACB/1000	800
	280	LTVF-E40547AAA	C-Power ACB/1000	C-Power ACB/1250	1000
	315	LTVF-E40613AAA	C-Power ACB/1250	C-Power ACB/1250	1200
375	LTVF-E40731AAA	C-Power ACB/1250	C-Power ACB/1600	1400	
450	LTVF-E40877AAA	C-Power ACB/1600	C-Power ACB/2000	1600	

➤ AC Input Fuse

Voltage	Motor [kW]	Drive Cat. No.	AC Input Fuse [A]	AC Reactor		DC Reactor	
				[mH]	[A]	[mH]	[A]
Three-Phase 415V	5.5	LTVF-E40012BAA	20	1.22	15	5.34	14
	7.5	LTVF-E40016BAA	30	1.14	20	4.04	19
	11	LTVF-E40024BAA	40	0.81	30	2.76	29
	15	LTVF-E40030AAA	60	0.61	38	2.18	36
	18.5	LTVF-E40039AAA	70	0.45	50	1.79	48
	22	LTVF-E40045AAA	80	0.39	58		Built-in
	30	LTVF-E40061AAA	100	0.287	80		Built-in
	37	LTVF-E40075AAA	125	0.232	98		Built-in
	45	LTVF-E40091AAA	150	0.195	118		Built-in
	55	LTVF-E40110AAA	175	0.157	142		Built-in
	75	LTVF-E40152AAA	250	0.122	196		Built-in
	90	LTVF-E40183AAA	300	0.096	237		Built-in
	110	LTVF-E40223AAA	350	0.081	289		Built-in
	132	LTVF-E40264AAA	400	0.069	341		Built-in
	160	LTVF-E40325AAA	450	0.057	420		Built-in
	220	LTVF-E40432AAA	700	0.042	558		Built-in
	280	LTVF-E40547AAA	800	0.029	799		Built-in
	315	LTVF-E40613AAA	900	0.029	799	0.09	836
375	LTVF-E40731AAA	1000	0.024	952	0.076	996	
450	LTVF-E40877AAA	1200	0.024	952	0.064	1195	