

UNCOMMON VALUE



LHX-SERIES
LOW HARMONIC | ACTIVE FRONT END
VARIABLE FREQUENCY DRIVE



FANS



COMPRESSORS



HVAC



IRRIGATION



PUMPS



CLEAN WATER & WASTEWATER



Enclosure

- Durable Steel Enclosure
- Open
- NEMA 1
- L/C or L/C/L Integrated

Intuitive User Interface

- Large Backlit Graphic Display
- Eight Button Keypad
- Internal SDHC Port
- Remote Keypad Ready

Quick Setup

- Six Preset Wizards

Flexible I/O

- Three Analog Inputs
- Four Digital Inputs
- Four Programmable Relays
- Modbus
- Ethernet
- BACnet

LHX SERIES

Industrial Three-Phase VFD's

Designed with the Contractor in mind, our new LHX Series Variable Frequency Drives offer significant value in a clean and compact design.



Full Feature VFD

- ▶ Advanced Motor Protection & PID Control
- ▶ V/f Control and Direct Torque Control
- ▶ Download and Load Parameters Seamlessly
- ▶ Simple User Interface
- ▶ Large Backlit Graphic Display
- ▶ Intuitive Menus in Simple English
- ▶ Rugged All-Steel-Enclosure
- ▶ Rated Temperature: $-40\text{ }^{\circ}\text{C}$ – $40\text{ }^{\circ}\text{C}$ ($-40\text{ }^{\circ}\text{F}$ – $104\text{ }^{\circ}\text{F}$)
- ▶ Nominal Voltage: 230 V | 460 V
- ▶ Certified to UL 61800-5-1

Easy Setup Wizards

- ▶ Constant Pressure
- ▶ Flow Control
- ▶ Tank Level
- ▶ Pump Down
- ▶ Suction Pump
- ▶ HVAC

Industry Best Lead Times

- ▶ 3-10 Business Days



TECHNICAL
SUPPORT



INDUSTRY BEST
LEAD TIMES



MADE IN
THE USA

Active Front End Low Harmonic Technology

- ▶ Guaranteed I EEE 519 compliant without additional harmonic filters¹

Regenerative

- ▶ Maximize efficiency with balanced, stable voltage to the load and full regeneration on shutdown

Voltage Doubling Output

- ▶ Eliminates the need for transformers while minimizing load wire size



L1

L2

L3

L4

1LHX SERIES

	Model / Part Number	HP	Rated Current: Input/Output	Input Voltage	Output Voltage	CFM	BTU/hr	Frame Size
230V Models	1LHX005	5	26 A 18 A	230	230	125 - 250	459	L1
	1LHX007	7.5	37 A 25 A	230	230	125 - 250	638	L1
	1LHX010	10	48 A 31 A	230	230	125 - 250	791	L1
	1LHX015	15	72 A 46 A	230	230	125 - 250	1174	L1
	1LHX020	20	97 A 62 A	230	230	125 - 250	1582	L1

	Model / Part Number	HP	Rated Current: Input/Output	Input Voltage	Output Voltage	CFM	BTU/hr	Frame Size
Voltage Doubling	1LHX205	5	26 A 9 A	230	460	125 - 250	459	L1
	1LHX207	7.5	37 A 13 A	230	460	125 - 250	663	L1
	1LHX210	10	50 A 18 A	230	460	125 - 250	919	L1
	1LHX215	15	67 A 24 A	230	460	125 - 250	1225	L1
	1LHX220	20	97 A 31 A	230	460	125 - 250	1582	L1
	1LHX225	25	115 A 40 A	230	460	125 - 250	2041	L1
	1LHX230	30	139 A 46 A	230	460	450	2347	L2
	1LHX240	40	196 A 61 A	230	460	450	3113	L2
	1LHX250	50	226 A 77 A	230	460	720	3929	L3
	1LHX260	60	282 A 91 A	230	460	720	4945	L3

	Model / Part Number	HP	Rated Current: Input/Output	Input Voltage	Output Voltage	CFM	BTU/hr	Frame Size
460V Models	1LHX405	5	13 A 9 A	460	460	125 - 250	459	L1
	1LHX407	7.5	19 A 13 A	460	460	125 - 250	663	L1
	1LHX410	10	26 A 18 A	460	460	125 - 250	919	L1
	1LHX415	15	36 A 25 A	460	460	125 - 250	1276	L1
	1LHX420	20	48 A 31 A	460	460	125 - 250	1582	L1
	1LHX425	20	60 A 40 A	460	460	125 - 250	2041	L1
	1LHX430	30	72 A 46 A	460	460	125 - 250	2347	L1
	1LHX440	40	98 A 61 A	460	460	450	3113	L2
	1LHX450	50	121 A 77 A	460	460	450	3929	L2
	1LHX460	60	143 A 91 A	460	460	450	4643	L2
	1LHX475	75	170 A 107 A	460	460	450	5460	L2
	1LHX4100	100	226 A 142 A	460	460	720	7246	L3
	1LHX4125	125	226 A 142 A	460	460	720	9346	L3
	1LHX4150	150	273 A 172 A	460	460	720	10759	L3
	1LHX4200	200	398 A 250 A	460	460	900	13584	L4
	1LHX4250	250	483 A 304 A	460	460	900	16519	L4

Our Guarantee

¹IEEE 519 Compliance

Phase Technologies guarantees that the LHX SERIES product line will meet the IEEE 519-2014 standard as long as a minimum load of 50% is maintained as related to the max current rating of the system. If a system does not comply, Phase Technologies will either offer a suitable fix to bring the panel into compliance or offer a full refund for the purchase price of the panel upon return.

3LHX SERIES

	Model / Part Number	HP	Rated Current: Input/Output	Input Voltage	Output Voltage	CFM	BTU/hr	Frame Size
230V Models	3LHX005	5	18 A 18 A	230	230	125 - 250	459	L1
	3LHX007	7.5	24 A 25 A	230	230	125 - 250	638	L1
	3LHX010	10	31 A 31 A	230	230	125 - 250	791	L1
	3LHX015	15	46 A 46 A	230	230	125 - 250	1,174	L1
	3LHX020	20	61 A 61 A	230	230	125 - 250	1,556	L1
	3LHX025	25	75 A 75 A	230	230	125 - 250	1,914	L1
3LHX030	30	91 A 91 A	230	230	125 - 250	2,322	L1	

	Model / Part Number	HP	Rated Current: Input/Output	Input Voltage	Output Voltage	CFM	BTU/hr	Frame Size
Voltage Doubling	3LHX205	5	18 A 9 A	230	460	125 - 250	459	L1
	3LHX207	7.5	24 A 13 A	230	460	125 - 250	663	L1
	3LHX210	10	30 A 18 A	230	460	125 - 250	919	L1
	3LHX215	15	46 A 24 A	230	460	125 - 250	1,276	L1
	3LHX220	20	60 A 31 A	230	460	125 - 250	1,582	L1
	3LHX225	25	77 A 38 A	230	460	125 - 250	1,939	L1
	3LHX230	30	91 A 46 A	230	460	450	2,347	L2
	3LHX240	40	121 A 61 A	230	460	450	3,113	L2
	3LHX250	50	154 A 77 A	230	460	450	4,644	L2
	3LHX260	60	182 A 91 A	230	460	720	5,460	L3
	3LHX275	75	214 A 107 A	230	460	720	7,246	L3
	3LHX2100	100	284 A 142 A	230	460	720	8,777	L3

	Model / Part Number	HP	Rated Current: Input/Output	Input Voltage	Output Voltage	CFM	BTU/hr	Frame Size
460V Models	3LHX405	5	9 A 9 A	460	460	125 - 250	459	L1
	3LHX407	7.5	13 A 13 A	460	460	125 - 250	663	L1
	3LHX410	10	18 A 18 A	460	460	125 - 250	919	L1
	3LHX415	15	24 A 24 A	460	460	125 - 250	1,276	L1
	3LHX420	20	31 A 31 A	460	460	125 - 250	1,582	L1
	3LHX425	25	38 A 38 A	460	460	125 - 250	2,041	L1
	3LHX430	30	46 A 46 A	460	460	125 - 250	2,347	L1
	3LHX440	40	61 A 61 A	460	460	125 - 250	3,113	L1
	3LHX450	50	77 A 77 A	460	460	125 - 250	3,929	L1
	3LHX460	60	91 A 91 A	460	460	450	4,644	L2
	3LHX475	75	107 A 107 A	460	460	450	5,460	L2
	3LHX4100	100	142 A 142 A	460	460	450	7,246	L2
	3LHX4125	125	172 A 172 A	460	460	450	8,777	L2
	3LHX4150	150	198 A 198 A	460	460	450	10,104	L2
	3LHX4200	200	250 A 250 A	460	460	720	12,758	L3
	3LHX4250	250	304 A 304 A	460	460	720	15,513	L3
	3LHX4300	300	362 A 362 A	460	460	720	18,473	L3
	3LHX4350	350	415 A 415 A	460	460	900	21,178	L4
	3LHX4400	400	478 A 478 A	460	460	900	24,393	L4
	3LHX4450	450	515 A 515 A	460	460	900	26,281	L4
3LHX4500	500	590 A 590 A	460	460	900	30,108	L4	

