



LOW HARMONIC | ACTIVE FRONT END VFD
NEMA 3R OUTDOOR ENCLOSURE | 5-800 HP

3LH **Low HARMONIC** CONFIGURED PANEL



Power
Conditioning



Low
Harmonic



Regenerative
Power



Voltage
Doubling



508A
Panel Shop

Craft Your Configured Panel

Full 508A Panel Shop

- ▶ **MCCB** - Service Rated
- ▶ **System Bypass**
- ▶ **LCL Filter**
- ▶ **Motor Protection**
 - dV/dt Output Filter
 - Sine Wave Output Filter
- ▶ **Power Supply**
- ▶ **HOA & Speed Pot**
- ▶ **Run & Fault Light**
- ▶ **Surge Protection**
 - Protec
 - Strikesorb
- ▶ **Leg Kit**



Built Around Our LHX Series VFD

LHX **Low HARMONIC** VARIABLE FREQUENCY DRIVES

Our LHX variable frequency drive (VFD) featuring active front end technology offers phase conversion, voltage doubling, and will work on open delta power (no de-rate required). This VFD is designed to reduce harmonic distortion, making it ideal for applications requiring enhanced energy efficiency and reducing noise back to the grid.



3LH

LOW HARMONIC

CONFIGURED PANEL

Features

Power Conditioning

Our LH panel corrects up to 50% incoming voltage imbalance without oversizing the VFD. Through sophisticated controls and circuitry, incoming power is conditioned and balanced before being sent to the motor. Additionally, the LH panel gives you the ability to dial in the output voltage to your motor specifications for optimal performance. When incoming power quality is questionable and voltage drop is a concern, look to the power conditioning LH panel for your solution.

Low Harmonic Active-Front-End Technology

Phase Technologies guarantees that the LH SERIES product line will meet the IEEE 519- 2014 standard without additional harmonic filters 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.

Power Factor Correcting

Power factor correction (PFC) is the process of improving the power factor of a system and allowing it to run more efficiently. A low power factor indicates inefficient use of electrical power. More current is required to deliver the same amount of real power, leading to higher losses in the electrical distribution system. Lowers Electricity Bills: Lowering the demand for reactive power will reduce utility charges.

Voltage Doubling

Eliminates the need for a transformer while minimizing motor lead wire size on 460 V systems running on a 230 V source, saving you hundreds on wire costs.



VISIT OUR WEBSITE FOR MORE INFO
PHASETECHNOLOGIES.COM

Cutsheet - 3LH Series v4.2_04072026



Product Specifications

| | Model / Part Number | HP | Rated Current (Input) | Rated Current (Output) |
|--|---------------------|-----|-----------------------|------------------------|
| 230 V | 3LH005 | 5 | 18 A | 18 A |
| | 3LH007 | 7.5 | 25 A | 25 A |
| | 3LH010 | 10 | 31 A | 31 A |
| | 3LH015 | 15 | 46 A | 46 A |
| | 3LH020 | 20 | 61 A | 61 A |
| | 3LH025 | 25 | 75 A | 75 A |
| | 3LH030 | 30 | 91 A | 91 A |
| VOLTAGE DOUBLING 230 V IN — 460 V OUT | 3LH205 | 5 | 18 A | 9 A |
| | 3LH207 | 7.5 | 25 A | 13 A |
| | 3LH210 | 10 | 30 A | 18 A |
| | 3LH215 | 15 | 46 A | 25 A |
| | 3LH220 | 20 | 60 A | 31 A |
| | 3LH230 | 30 | 91 A | 46 A |
| | 3LH240 | 40 | 121 A | 61 A |
| | 3LH250 | 50 | 154 A | 77 A |
| | 3LH260 | 60 | 182 A | 91 A |
| | 3LH275 | 75 | 214 A | 107 A |
| 460 V | 3LH405 | 5 | 9 A | 9 A |
| | 3LH407 | 7.5 | 13 A | 13 A |
| | 3LH410 | 10 | 18 A | 18 A |
| | 3LH415 | 15 | 25 A | 25 A |
| | 3LH420 | 20 | 31 A | 31 A |
| | 3LH425 | 25 | 38 A | 38 A |
| | 3LH430 | 30 | 46 A | 46 A |
| | 3LH440 | 40 | 61 A | 61 A |
| | 3LH450 | 50 | 77 A | 77 A |
| | 3LH460 | 60 | 91 A | 91 A |
| | 3LH475 | 75 | 107 A | 107 A |
| | 3LH4100 | 100 | 142 A | 142 A |
| | 3LH4125 | 125 | 172 A | 172 A |
| | 3LH4150 | 150 | 198 A | 198 A |
| | 3LH4200 | 200 | 250 A | 250 A |
| | 3LH4250 | 250 | 304 A | 304 A |
| | 3LH4300 | 300 | 362 A | 362 A |
| | 3LH4350 | 350 | 415 A | 415 A |
| | 3LH4400 | 400 | 515 A | 515 A |
| | 3LH4500 | 500 | 608 A | 608 A |
| | 3LH4600 | 600 | 730 A | 730 A |
| | 3LH4700 | 700 | 800 A | 800 A |
| | 3LH4800 | 800 | 960 A | 960 A |



PRODUCT BUILDER

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UP-TO-DATE

✓ LEAD TIMES
✓ PRICING
✓ DIMENSIONS