

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

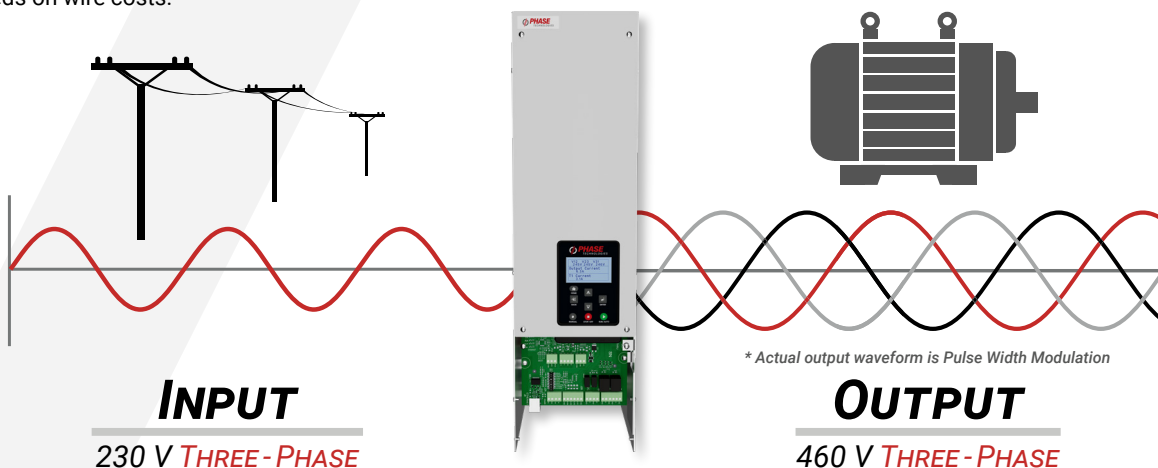


508A
Panel Shop

Voltage Doubling

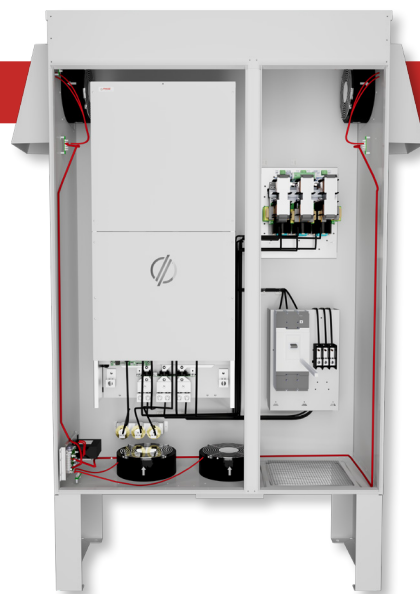
Cost Savings for Long Lead Applications

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.



Panel Shop Options

- ▶ **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**



3LH

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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.

Product Specifications

Model / Part Number	HP	Rated Current (Input)	Rated Current (Output)	Enclosure	Enclosure (w/ Bypass)
230 V					
3LH005	5	18 A	18 A	ENC3	-
3LH007	7.5	25 A	25 A	ENC3	-
3LH010	10	31 A	31 A	ENC3	-
3LH015	15	46 A	46 A	ENC3	-
3LH020	20	61 A	61 A	ENC3	-
3LH025	25	75 A	75 A	ENC3	-
3LH030	30	91 A	91 A	ENC3	-
Voltage Doubling					
3LH205	5	18 A	9 A	ENC3	-
3LH207	7.5	25 A	13 A	ENC3	-
3LH210	10	30 A	18 A	ENC3	-
3LH215	15	46 A	25 A	ENC3	-
3LH220	20	60 A	31 A	ENC3	-
3LH230	30	91 A	46 A	ENC5	-
3LH240	40	121 A	61 A	ENC5	-
3LH250	50	142 A	77 A	ENC5	-
3LH260	60	182 A	91 A	ENC6	-
3LH275	75	214 A	107 A	ENC6	-
460 V					
3LH405	5	9 A	9 A	ENC3	-
3LH407	7.5	13 A	13 A	ENC3	-
3LH410	10	18 A	18 A	ENC3	-
3LH415	15	25 A	25 A	ENC3	-
3LH420	20	31 A	31 A	ENC3	ENC5
3LH425	25	38 A	38 A	ENC3	ENC5
3LH430	30	46 A	46 A	ENC3	ENC5
3LH440	40	61 A	61 A	ENC3	ENC5
3LH450	50	77 A	77 A	ENC3	ENC5
3LH460	60	91 A	91 A	ENC5	ENC6
3LH475	75	107 A	107 A	ENC5	ENC6
3LH4100	100	142 A	142 A	ENC5	ENC6
3LH4125	125	172 A	172 A	ENC5	ENC6
3LH4150	150	198 A	198 A	ENC5	ENC6
3LH4200	200	250 A	250 A	ENC6	ENC6
3LH4250	250	304 A	304 A	ENC6	ENC6
3LH4300	300	362 A	362 A	ENC6	ENC6
3LH4350	350	415 A	415 A	ENC7A	-
3LH4400	400	515 A	515 A	ENC7A	-
3LH4500	500	608 A	608 A	ENC7A	-
3LH4700	700	800 A	800 A	-	-
3LH4800	800	960 A	960 A	-	-

Configured Panel Sizes

