

PHO = NIX Phase Converters

GP40NL





GENERAL SPECIFICATIONS		
HP 5	40	
KW	29.8	
KVA	43.37	
HZ	50/60	
ENCL	TEFC/NEMA 4	
FRAME	326T	
IDLER WEIGHT	539.1	
PANEL WEIGHT	51	

SINGLE PHASE ELECTRICAL SPECS		
VOLTAGE INPUT	208-250V	
MOTOR LOAD BREAKER Minimum Size	80	
MOTOR LOAD BREAKER Maximum Size	200	
SERVICE KVA Minimum Size	50	
SERVICE AMPS Minimum Size	200	
COPPER WIRE Minimum Size	1/0	

CONSTRUCTION, DIMENSIONS, WEIGHT				
ELECTRICAL PANEL				
ENCLOSURE TYPE	NEMA 4			
ENCLOSURE CERTIFICATIONS	UL 508A (CSA C22.2 No. 14-13.), TUV, CE.			
COLOR	Light Gray			
HEIGHT	20			
WIDTH	12			
DEPT	10			
MOUNTING	WALL MOUNT			

THREE PHASE ELECTRICAL SPECS			
VOLTAGE OUTPUT	208-230 Volts Delta		
MAX OUTPUT INDUCTIVE LOAD AMPS	104		
MAX OUTPUT RESISTIVE LOAD AMPS	56		
VOLTAGE BALANCING	+/- 2%		
WIRE SIZE MIN Idler/Generator	3		
LARGEST SPINDLE MOTOR START	20		
LARGEST COMPRESSOR LOAD START	16		
TOTAL COMBINED HORSEPOWER RUN	40		

Optional Feature

- 208, 460 Volt Output (includes transformer)
 AutoStart and AutoOff with load detection

- PL Model (includes Start and Stop with Built-in Mag Starter)
 GPX Model (includes WFI Cloud Controls, Timers, Energy Monitor)
 Wireless Remote ON/OFF

PHOENIX PHASE CONVERTERS

800-417-6568

CAUTION

READ INSTRUCTIONS BEFORE OPERATING

READ FIRST - BEFORE INSTALLATION

- Most important step to know.
- NEVER Start the phase converter with a load, this includes transformers.
- Make sure you have the incoming service to start the phase converter, call your electric company verify the KVA size of the transformer, that KVA number should be larger then the HP of the idler motor.
- DO NOT use WIRE NUTS for any connection, use the bolt down lugs.
 Check all make sure all connections even factory connections to the power block are secure, also recheck connections after a few week of using the converter.
- When powering up the unit, if the idler does **NOT** come up to **FULL SPEED**, then shut the phase converter down right away. If you don't understand then call us or a qualified electrician. if you do not turn the unit **off** you have a chance to damage the idler motor that will **not be covered under warranty.**
- Must be installed by a license industrial electrician, our guidelines are not to supersede local and state laws.

Power requirements

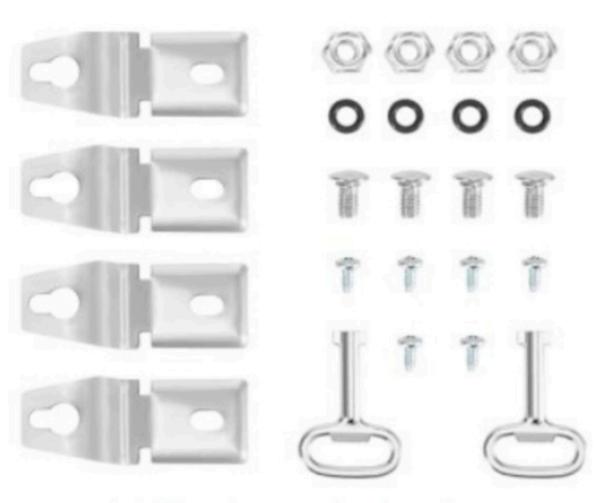
- You will need to use a motor load type breaker. NOT a quick blow or trip breaker.
- Sizing a breaker for a single machine with an inductive load (motors) double the amps size of the machine. Example if the equipment pulls 20 amps use a 40 amp breaker.
- Sizing the equipment for multiple machine double the amp of the largest machine and add the the other machine that will run at the same time. Example; 20 AMP Lathe. 9 amp saw, 6 amp milling machine. 20 X 2 = 40 +9 + 6 = 45 amps, use the next standard size breaker which would be 50 Amps two pole breaker.
- Use the chart to make sure you don't go over or under the Minimum and maximum size allowed. For rural areas increase the minimum size breaker by 20% Click on the next picture to see this chart.

GP40

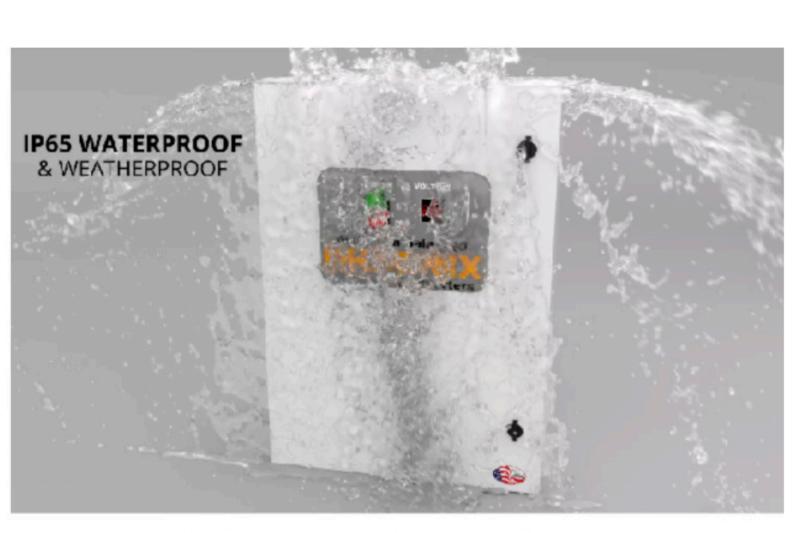
WIRE AND BREAKER SIZES				
SINGLE PHASE	1/0 under 50 feet			
IDLER MOTOR	3 AWG COPPER			
BREAKER/FUSE	60 MIN/200MAX			

Mounting the Phase Converter Panel

Mount the enclosure first, to a non-vibrating surface, there are two options provided for mounting, next install the back plate with the four nuts provided. Mounting the phase converter panel near the breaker panel is recommended the larger wire is you single phase line, that is best to keep as short as possible. Every 50 feet you will need to increase the size of the single phase wire.







Indoor or outdoor enclosure



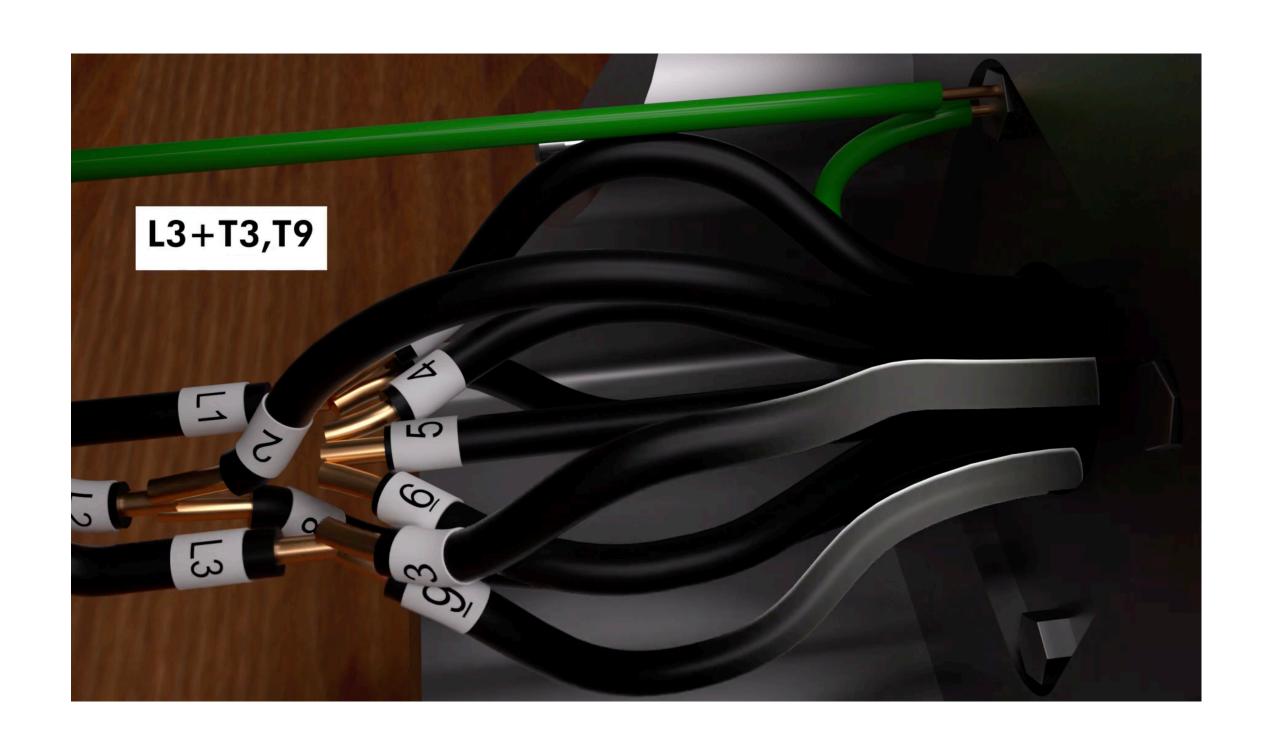


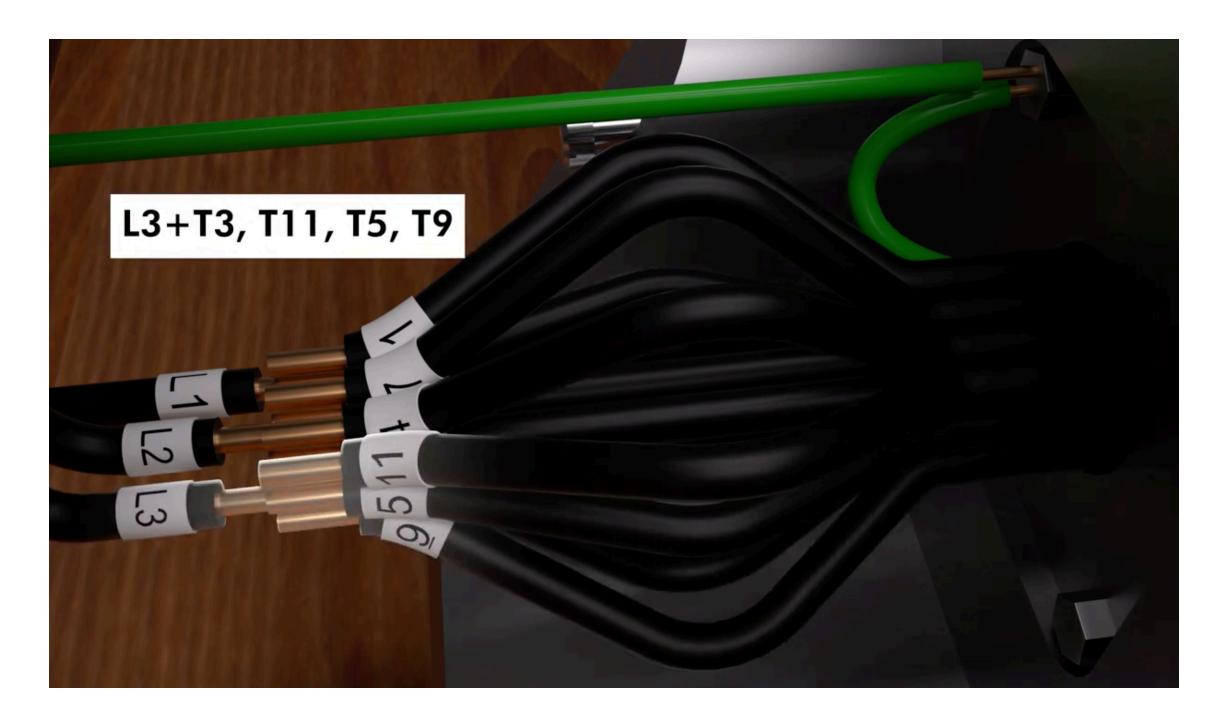
CONNECTING THE IDLER MOTOR WIRES

THIS IS JUST A ILLUSTRATION OF WHAT WIRES GET CONNECTED TOGETHER, **DO NOT USE WIRE NUTS**, USE BOLT DOWN LUGS

IF YOU HAVE 9 LEADS AT THE MOTOR CLICK HERE

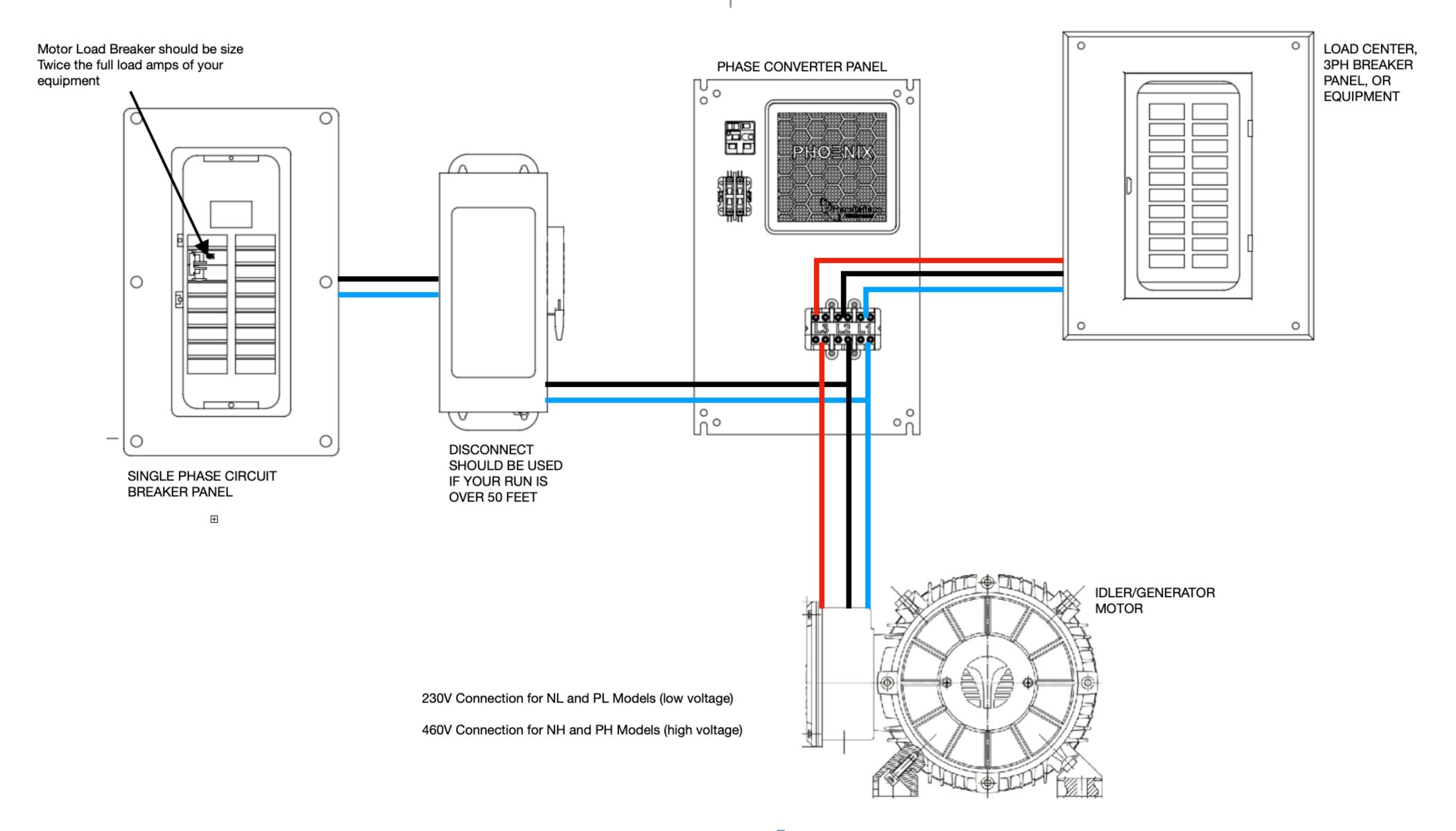
IF YOU HAVE 12 LEADS AT THE MOTOR CLICK HERE

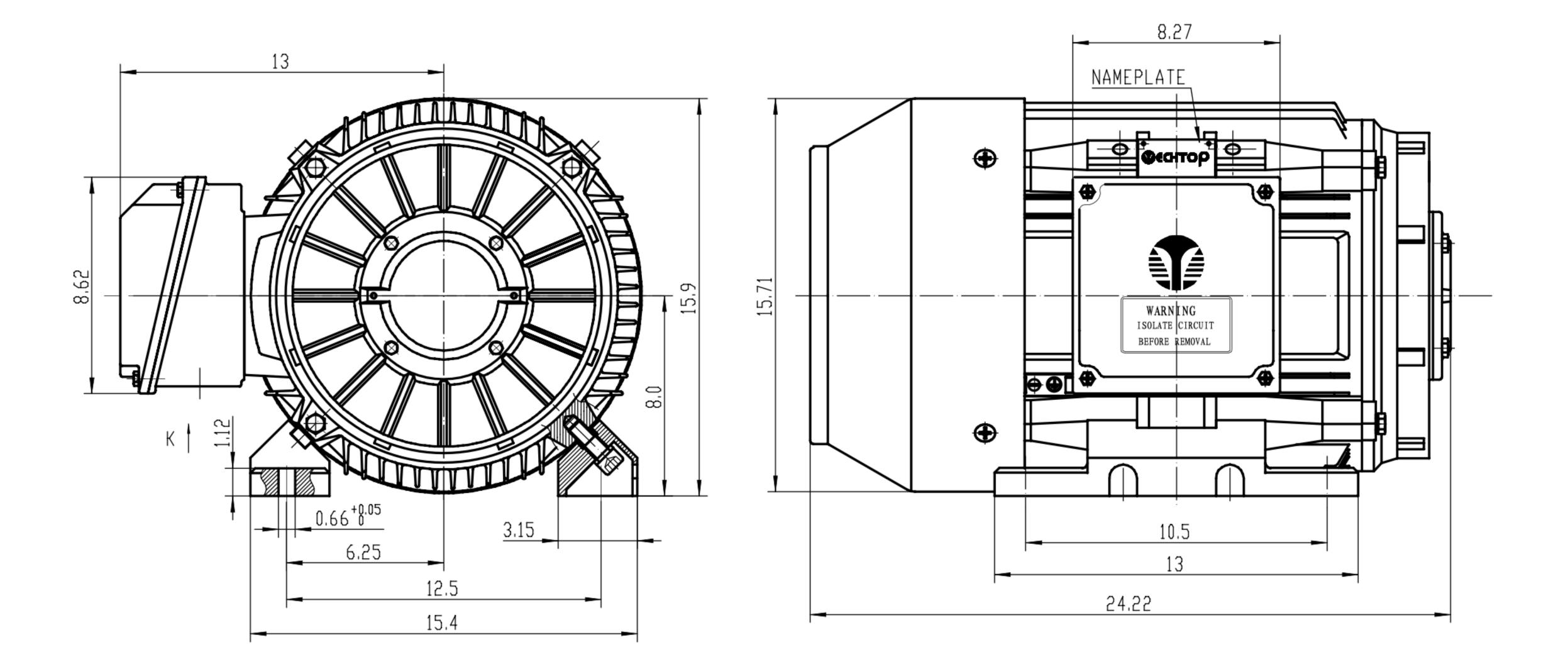


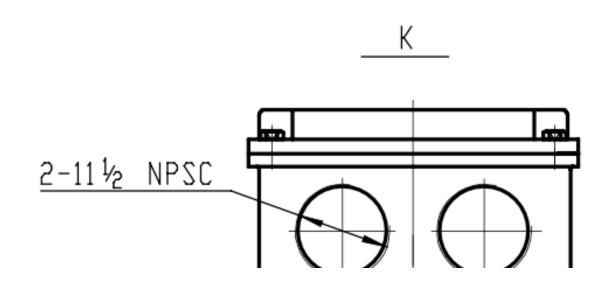


NL AND NH MODELS

MUST BE INSTALLED BY A INDUSTRIAL LICENSED ELECTRICIAN

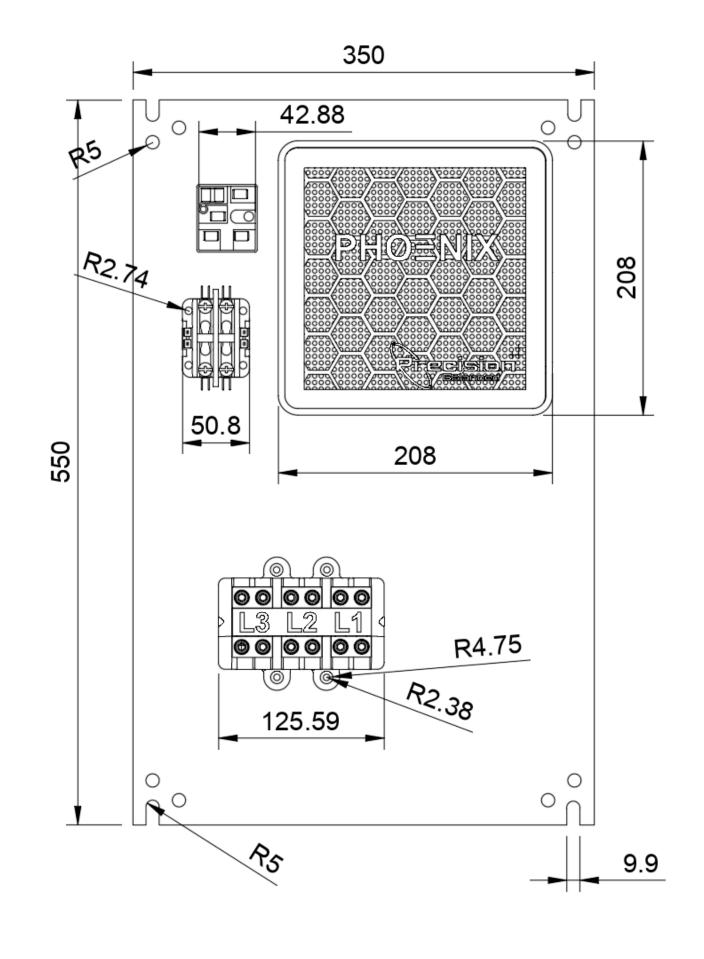


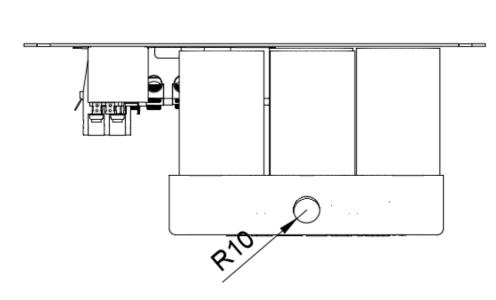


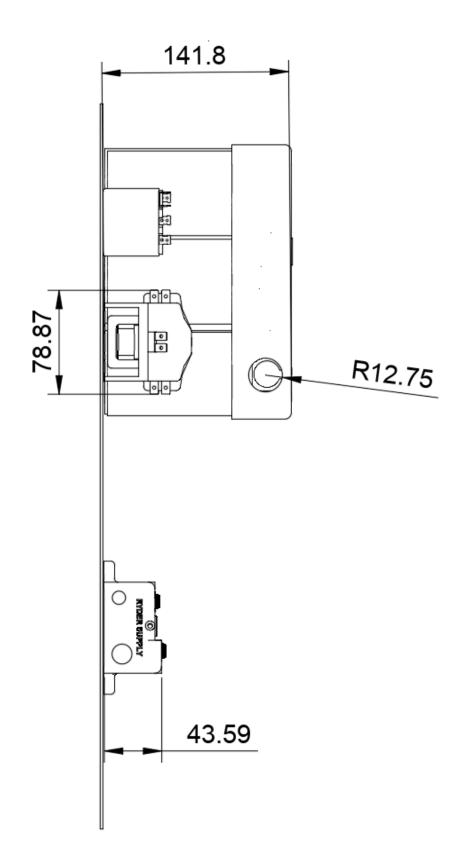


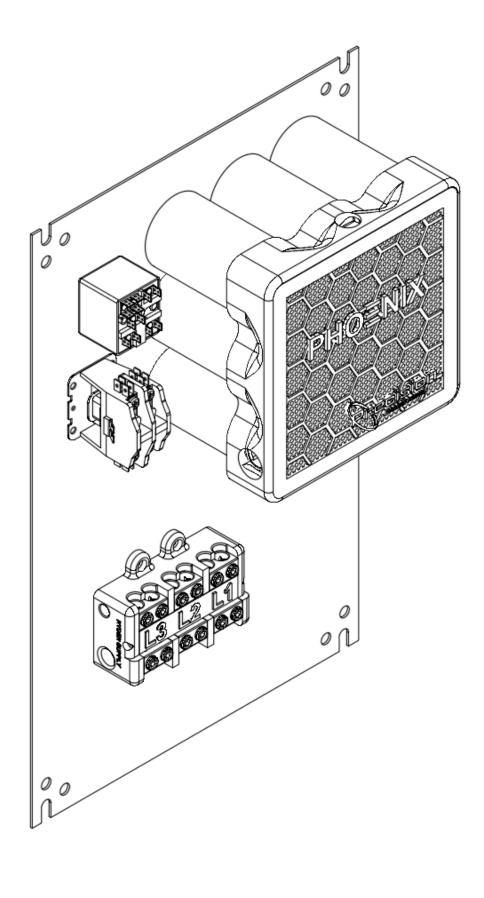
Weight: 40 HP = 539.1 lbs

GP40NL Dimensions



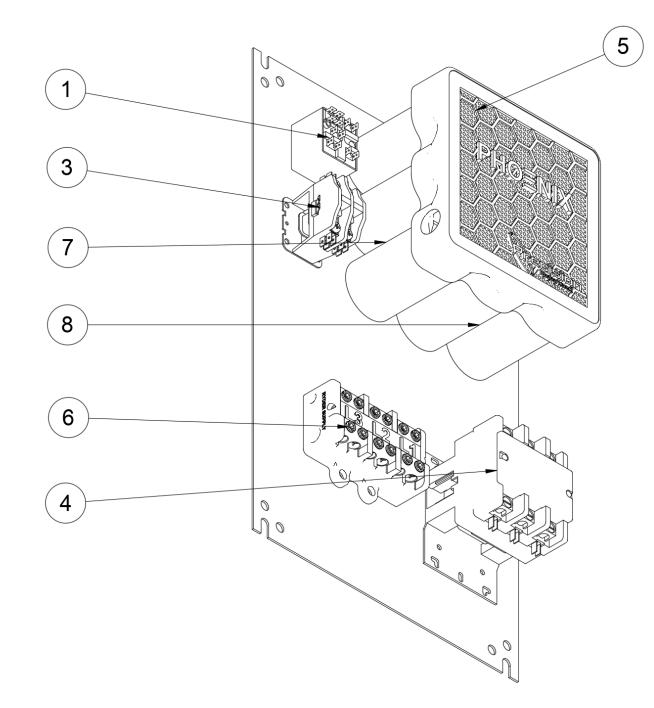


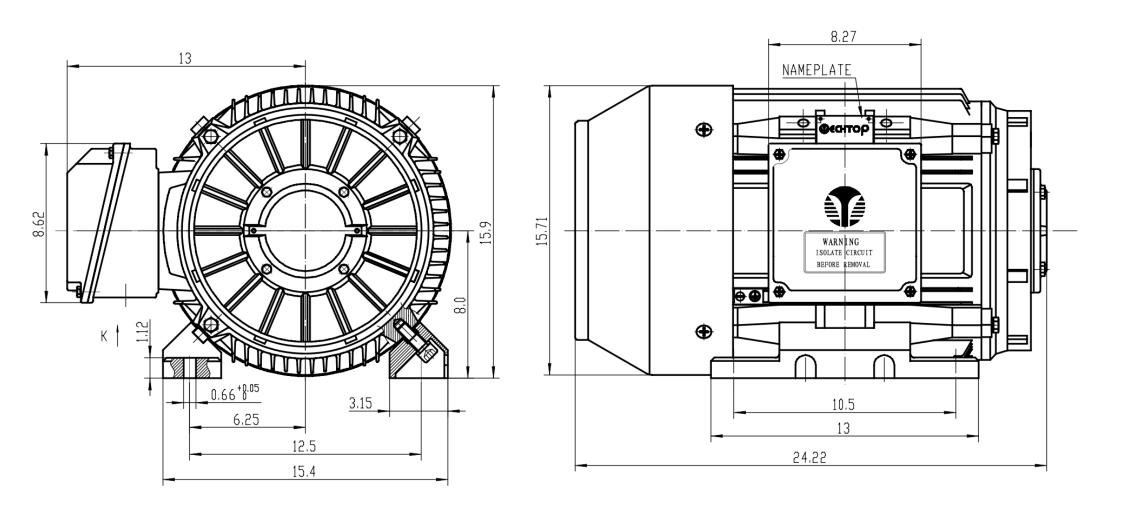


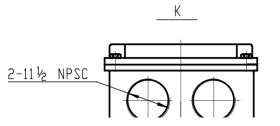


40 HP Rotary Phase Converter Components

Item Number	Description (Click on the description to visit the link to that item)	Quantity in Model	Price	SKU# (Click on 3D viewing)
1	Relay	1	<u>47.00</u>	GP90-66
3	2 Pole Contactor	1	28.00	GP2P30A
4	OPTIONAL 3 Pole Contactor 60 amp - 230V	1	<u>52.84</u>	<u>C360C</u>
5	9 Bank Start and Run Capacitor Holder Only with Base	1	<u>239.00</u>	СВ409НО
6	3 Phase Power Block	1	<u>45.00</u>	RS2540
7	630 MFD 220V Start <u>Capacitor</u>	3	<u>24.14</u>	PTMJ630
*	100 MFD 370V Run Capacitor	1	26.00	TRC100
*	Complete Capacitor Bank Assembly - Prewired	1	390.00	<u>CP309</u>
*	Complete Back Plate Assembly - Prewird PL Model. (with Start and Stop Button)	1	1574.50	CBA25PL
*	Complete Panel with NEMA 4 Enclosure - Prewird PL Model (with Start and Stop Button)	1	1748.50	GP24PLPO
*	Idler Motor	1	1764.00	
*	Complete Unit Phase Converter Panel (PL Model) and Idler/ Generator Motor	1	3497.00	GP25PL







Weight: 40 HP = 539.1 lbs