



# VARIABLE FREQUENCY DRIVE GENERAL PURPOSE

PHASE CONVERTING | 230/460V OPTIONS  
NEMA 3R OUTDOOR ENCLOSURE | 5-500 HP



508A Panel Shop Customizable



Economical



Simple Setup



Flexible I/O (Input/Output)



Intuitive User Interface

## Full Feature VFD

- ▶ Advanced Motor Protection & PID Control
- ▶ V/f Control and Direct Torque Control
- ▶ DC Link Choke in models 30 HP and above
- ▶ Rated Temperature: -40 °C – 40 °C (-40 °F – 104 °F)
- ▶ Nominal Voltage: 230 V | 460 V
- ▶ Overload Capacity: 110% for 60 seconds
- ▶ Certified to UL 61800-5-1

## Enclosure

- ▶ Rugged All-Steel-Enclosure
- ▶ Open, NEMA 1, NEMA 3R (E,S,P)
- ▶ Leg Kits Available
- ▶ Remote Keypad Ready

## Intuitive User Interface

- ▶ Large Backlit Graphic Display
- ▶ Eight Button Keypad
- ▶ Intuitive Menus in Plain English
- ▶ Download and Load Parameters Seamlessly
- ▶ Internal Micro SD Port

## Flexible I/O

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

## Easy Setup Wizards

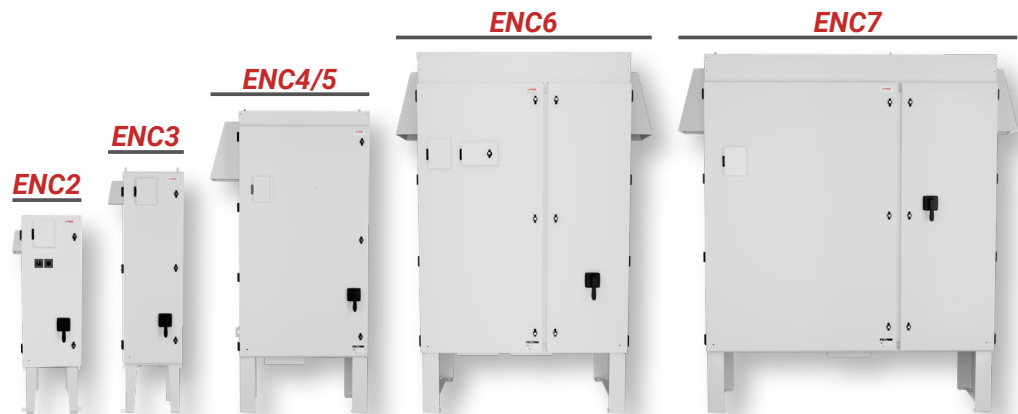
- ▶ Constant Pressure
- ▶ Flow Control
- ▶ Tank Level
- ▶ Pump Down
- ▶ Suction Pump
- ▶ HVAC

## UL 508A Panel Shop Options

	Disconnect		Hand Controls				Input Filters		Run Indicators		Output Filters		System Bypass	Power Supply	Surge Protection		Leg Kit
	B	H	H1	H2	I	L3	O	OF	Q	P11	S	S1	Z				
	MCCB	HOA Switch & Speed Pot	HOA Switch Only	Speed Pot Only	Line Reactor	Run & Fault Light	Sine Wave	dV/dt	Includes MCCB	120V (150VA)	Strikesorb	Protec	Pad Mount				
230V	<b>ENTERPRISE (5-30 HP)</b>																
	✓	✓	✓	✓	✗	✓	✓	✓	✗	✗	✓	✓	✓				
460V	<b>ENTERPRISE (5-50 HP)</b>																
	✓	✓	✓	✓	✗	✓	✓	✓	✗	✗	✓	✓	✓				
	<b>SIGNATURE (60-400 HP)</b>																
✓	✓	✓	✓	✗	✓	✗	✓*	✗	✗	✓	✗	✓					
<b>PERFORMANCE (10-500 HP)</b>																	
✓	✓	✓	✓	✓*	✓	✓*	✓*	✓*	✓	✓	✗	✓					

\* Some models in this series have this Panel Shop Option while others do not. Please contact Phase Technologies for more information. Configure your drive with our online product builder by visiting [PhaseTechnologies.com](http://PhaseTechnologies.com) or scanning the QR code at the bottom of the page.

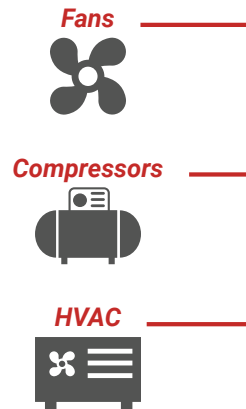
## Configured Panel Sizes



Enclosure	Leg Kit Part Number	Leg Kit (Height")	Panel Dimensions (Height" x Width" x Depth")	Panel w/ Leg Kit Dimensions (Height" x Width" x Depth")
ENC2	LEGS14	12-1/2"	45-1/4" x 19-1/2" x 19-9/16"	55" x 19-1/2" x 19-9/16"
ENC3	LEGS14	12-1/2"	55-7/16" x 19-1/2" x 19-9/16"	65-3/16" x 19-1/2" x 19-9/16"
ENC4/5	LEGS15	15"	68-11/16" x 44-5/16" x 23-13/16"	81-5/16" x 44-5/16" x 23-13/16"
ENC6	LEGS17	15-3/8"	74-5/8" x 66-7/16" x 24-5/16"	87-5/16" x 66-7/16" x 24-5/16"
ENC7	LEGS18	15-3/8"	72-1/4" x 86-3/8" x 28-1/16"	87-5/8" x 86-3/8" x 28-1/16"



## Applications



## Product Specifications

230V

Model / Part Number	HP	Rated Current (Input)	Rated Current (Output)	Panel Size
<b>ENTERPRISE</b>				
<b>DXE005</b>	5	18 A	18 A	ENC2
<b>DXE007</b>	7.5	25 A	25 A	ENC2
<b>DXE010</b>	10	31 A	31 A	ENC2
<b>DXE015</b>	15	46 A	46 A	ENC2
<b>DXE020</b>	20	62 A	62 A	ENC2
<b>DXE025</b>	25	75 A	75 A	ENC2
<b>DXE030</b>	30	91 A	91 A	ENC2

460V

Model / Part Number	HP	Rated Current (Input)	Rated Current (Output)	Panel Size
<b>ENTERPRISE</b>				
<b>DXE405</b>	5	9 A	9 A	ENC2
<b>DXE407</b>	7.5	13 A	13 A	ENC2
<b>DXE410</b>	10	18 A	18 A	ENC2
<b>DXE415</b>	15	24 A	24 A	ENC2
<b>DXE420</b>	20	31 A	31 A	ENC2
<b>DXE425</b>	25	38 A	38 A	ENC2
<b>DXE430</b>	30	46 A	46 A	ENC2
<b>DXE440</b>	40	61 A	61 A	ENC2
<b>DXE450</b>	50	77 A	77 A	ENC2

460V

Model / Part Number	HP	Rated Current (Input)	Rated Current (Output)	Panel Size
<b>SIGNATURE</b>				
<b>DXS460</b>	60	91 A	91 A	ENC5
<b>DXS475</b>	75	107 A	107 A	ENC5
<b>DXS4100</b>	100	142 A	142 A	ENC5
<b>DXS4125</b>	125	172 A	172 A	ENC5
<b>DXS4150</b>	150	198 A	198 A	ENC5
<b>DXS4200</b>	200	250 A	250 A	ENC5
<b>DXS4250</b>	250	304 A	304 A	ENC5
<b>DXS4300</b>	300	365 A	365 A	ENC6
<b>DXS4350</b>	350	415 A	415 A	ENC6
<b>DXS4400</b>	400	478 A	478 A	ENC6

460V

Model / Part Number	HP	Rated Current (Input)	Rated Current (Output)	Panel Size
<b>PERFORMANCE</b>				
<b>DX410</b>	10	18 A	18 A	ENC5
<b>DX415</b>	15	24 A	24 A	ENC5
<b>DX420</b>	20	31 A	31 A	ENC5
<b>DX425</b>	25	38 A	38 A	ENC5
<b>DX430</b>	30	46 A	46 A	ENC5
<b>DX440</b>	40	61 A	61 A	ENC5
<b>DX450</b>	50	77 A	77 A	ENC5
<b>DX460</b>	60	91 A	91 A	ENC6
<b>DX475</b>	75	107 A	107 A	ENC6
<b>DX4100</b>	100	142 A	142 A	ENC6
<b>DX4125</b>	125	172 A	172 A	ENC6
<b>DX4150</b>	150	198 A	198 A	ENC6
<b>DX4200</b>	200	250 A	250 A	ENC6
<b>DX4250</b>	250	304 A	304 A	ENC6
<b>DX4300</b>	300	365 A	365 A	ENC7
<b>DX4350</b>	350	415 A	415 A	ENC7
<b>DX4400</b>	400	478 A	478 A	ENC7
<b>DX4500</b>	500	607 A	607 A	ENC7
<b>DX4600R</b>	600	730 A	730 A	ENC7
<b>DX4700R</b>	700	830 A	830 A	ENC7
<b>DX4900R</b>	900	960 A	960 A	ENC7



## Nomenclature

**DXE425R**

VFD Series

HP: 425

Enclosure Type: R = NEMA Type 3R

Enclosure Size: E = Enterprise

Voltage: 4 = 460V

Blank = Performance

DXLL, DXL, DX, SD = Standard  
LHX, 1LH, 3LH = Low Harmonic  
ES, SD, 2XD = Aqua Phase

0 = 208V - 230V  
2 = Voltage Doubling  
4 = 460V