



VARIABLE FREQUENCY DRIVE GENERAL PURPOSE

PHASE CONVERTING | 230/460V OPTIONS
NEMA 3R OUTDOOR ENCLOSURE | 5-100 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 15 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
- ▶ 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

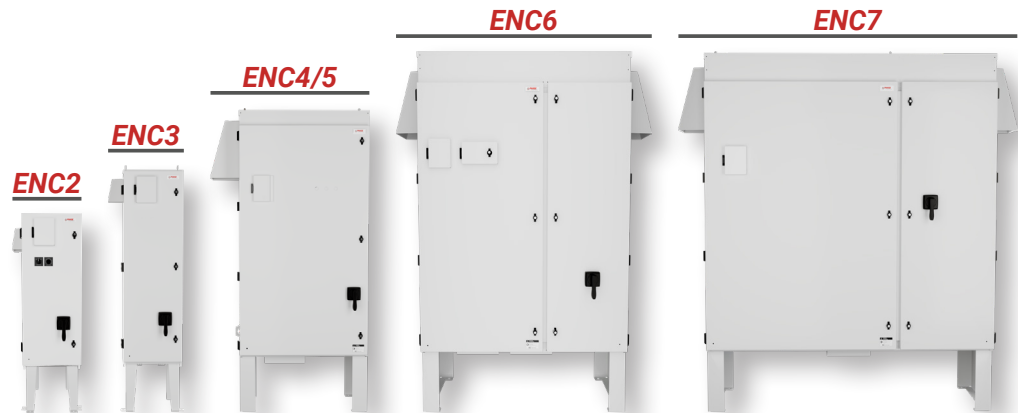
- ▶ Constant Pressure
- ▶ Flow Control
- ▶ Tank Level
- ▶ Pump Down
- ▶ Suction Pump
- ▶ HVAC

UL 508A Panel Shop Options

	AUXPOWER™		Disconnect		Hand Controls			Input Filters		Run Indicators		Output Filters		Power Supply			Surge Protection		Leg Kit
	C	X	B	H	H1	H2	I	L3	O	OF	P11	P21	P31	S	S1	Z			
	18A	32A	MCCB	HOA Switch & Speed Pot	HOA Switch Only	Speed Pot Only	Line Reactor	Run & Fault Light	Sine Wave	dV/dt	150 VA	250 VA	375 VA	Strikesorb	Protec	Pad Mount			
230V	ENTERPRISE (5-15 HP)																		
	x	x	✓	✓	✓	✓	x	✓	✓	✓	x	x	x	✓	✓	✓			
460V	ENTERPRISE (5-25 HP)																		
	x	x	✓	✓	✓	✓	x	✓	✓	✓	x	x	x	✓	✓	✓			
	SIGNATURE (30-100 HP)																		
	x	x	✓	✓	✓	✓	x	✓	x	✓	x	x	x	✓	x	✓			
	PERFORMANCE (10-100 HP)																		
	✓	✓	✓	✓	✓	✓	✓	✓	✓*	✓	✓	✓	✓	✓	x	✓			

* 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 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"



Product Specifications

	Model / Part Number	HP	Rated Current (Input)	Rated Current (Output)	Input Voltage	Output Voltage	Input Phase	Output Phase	Panel Size	
230V	ENTERPRISE									
	SDE005	5	36 A	18 A	230 V	230 V	Single-Phase	Three-Phase	ENC2	
	SDE007	7.5	58 A	27 A	230 V	230 V	Single-Phase	Three-Phase	ENC2	
	SDE010	10	69 A	33 A	230 V	230 V	Single-Phase	Three-Phase	ENC2	
	SDE015	15	92 A	46 A	230 V	230 V	Single-Phase	Three-Phase	ENC2	
460V	ENTERPRISE									
	SDE405	5	30 A	10 A	460 V	460 V	Single-Phase	Three-Phase	ENC2	
	SDE407	7.5	37 A	13 A	460 V	460 V	Single-Phase	Three-Phase	ENC2	
	SDE410	10	42 A	18 A	460 V	460 V	Single-Phase	Three-Phase	ENC2	
	SDE415	15	52 A	25 A	460 V	460 V	Single-Phase	Three-Phase	ENC2	
	SDE420	20	65 A	31 A	460 V	460 V	Single-Phase	Three-Phase	ENC2	
	SDE425	25	76 A	38 A	460 V	460 V	Single-Phase	Three-Phase	ENC2	
	SIGNATURE									
	SDS430	30	46 A	46 A	460 V	460 V	Single-Phase	Three-Phase	ENC5	
	SDS450	50	77 A	77 A	460 V	460 V	Single-Phase	Three-Phase	ENC5	
	SDS475	75	107 A	107 A	460 V	460 V	Single-Phase	Three-Phase	ENC5	
	SDS4100	100	142 A	142 A	460 V	460 V	Single-Phase	Three-Phase	ENC5	
	PERFORMANCE									
	SD410	10	18 A	18 A	460 V	460 V	Single-Phase	Three-Phase	ENC5	
	SD415	15	25 A	25 A	460 V	460 V	Single-Phase	Three-Phase	ENC5	
	SD420	20	31 A	31 A	460 V	460 V	Single-Phase	Three-Phase	ENC5	
	SD425	25	38 A	38 A	460 V	460 V	Single-Phase	Three-Phase	ENC5	
	SD430	30	46 A	46 A	460 V	460 V	Single-Phase	Three-Phase	ENC6	
SD450	50	77 A	77 A	460 V	460 V	Single-Phase	Three-Phase	ENC6		
SD475	75	107 A	107 A	460 V	460 V	Single-Phase	Three-Phase	ENC6		
SD4100	100	142 A	142 A	460 V	460 V	Single-Phase	Three-Phase	ENC6		

Applications



Nomenclature

