

# SDX

## GENERAL PURPOSE

CONFIGURED PANEL



## Physical / Environmental

Operating Temperature Range	-18 °C – 50 °C (0 °F – 122 °F) *Heater in enclosure is required below -18 °C and 0 °F, de-rating required above 40 °C
Storage Temperature Range	-40 °C – 57 °C (-40 °F – 135 °F)
Enclosure	NEMA Type 3R: Outdoor   Rainproof
Altitude	Derate by 1% every 400 ft above 3,300 ft elevation

## Input Power

Input Phase	Single-Phase
Input Voltage	230V   460V
Input Voltage Range	190V – 264V
Input Frequency	50/60 Hz

## Output Power

Output Phase	Three-Phase
Nominal Output Voltage	230V   460V
Output Voltage Range	100V – 270V   200V – 530V
Output Frequency	5 Hz – 120 Hz
Horsepower	5 HP - 100 HP
Output Power	1.5 - 409 kW
Switching Frequency	2 kHz – 5 kHz
Output	V/f control or torque Control (Optional)

## Electrical

Short Circuit Withstand Rating	65 kA RMS symmetrical Amps
Efficiency	> 98%
Startup Ramp Time	1 – 120 s
Shutdown Ramp Time	1 – 120 s or Coast to Stop
Overload Capacity	110% for 60 s



## Analog Inputs

Quantity	(3) Programmable
Current Reference	4 – 20 mA, (2) Inputs
Voltage Reference	0 – 10 VDC, (1) Input
Terminal Block Size	26 - 12 AWG

## Digital Inputs

Quantity	(4) Programmable
Ratings	< 5 V, galvanically isolated
Terminal Block Size	26 - 12 AWG

## Relay Outputs

Quantity	(4) Programmable
Rating	Relay 1 : 30 VDC or 277 VAC, 10 A Relay 2 : 30 VDC or 277 VAC, 10 A Relay 3 : 30 VDC, 2 A or 125 VAC, 0.5 A Relay 4 : 30 VDC, 2 A or 125 VAC, 0.5 A
Terminal Block Size	26 - 12 AWG

## Features

Certification	ETL listed to UL 61800-5-1 and CSA C22.2 No. 274-17
User Interface	Push button membrane keypad with backlit graphic display



## 230V

230V

Model / Part Number	HP	Rated Current (Input)	Rated Current (Output)	Enclosure
SDX005	5	18 A	18 A	ENC2
SDX007	7.5	24 A	24 A	ENC2
SDX010	10	31 A	31 A	ENC2
SDX015	15	46 A	46 A	ENC2

## 460V

460V

Model / Part Number	HP	Rated Current (Input)	Rated Current (Output)	Enclosure
SDX405	5	9 A	9 A	ENC2
SDX407	7.5	13 A	13 A	ENC2
SDX410	10	18 A	18 A	ENC2
SDX415	15	25 A	25 A	ENC2
SDX420	20	31 A	31 A	ENC2
SDX425	25	38 A	38 A	ENC2
SDX430	30	46 A	46 A	ENC2
SDX450	50	77 A	77 A	ENC5
SDX460	60	91 A	91 A	ENC5
SDX475	75	107 A	107 A	ENC5
SDX4100	100	142 A	142 A	ENC5





## 230V

230V

Model / Part Number	HP	Fuse Rating (Recommended)	Circuit Breaker Rating (Recommended)
SDX005	5	25 A, 600 V	25 A
SDX007	7.5	30 A, 600 V	30 A
SDX010	10	40 A, 600 V	40 A
SDX015	15	60 A, 600 V	60 A

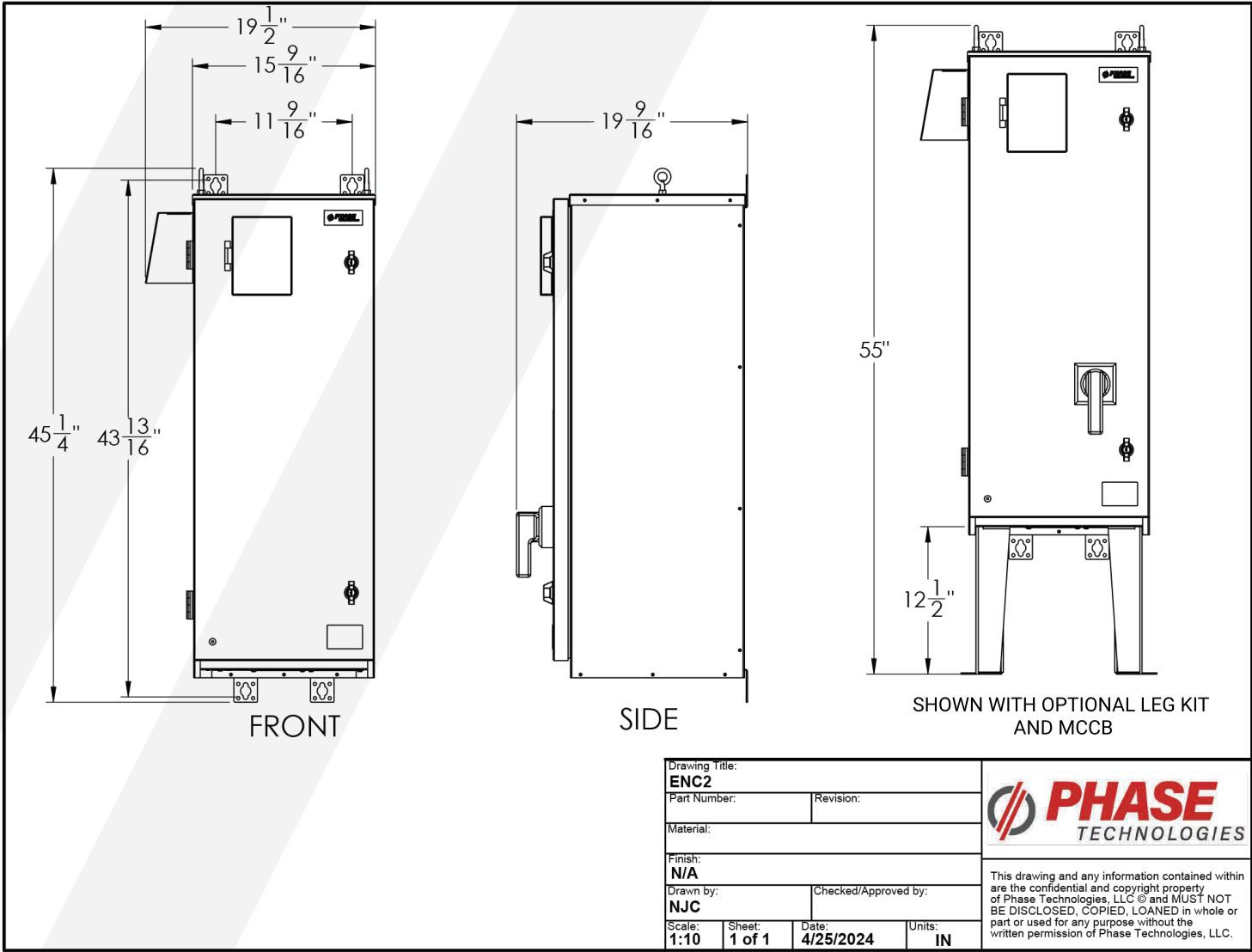
## 460V

460V

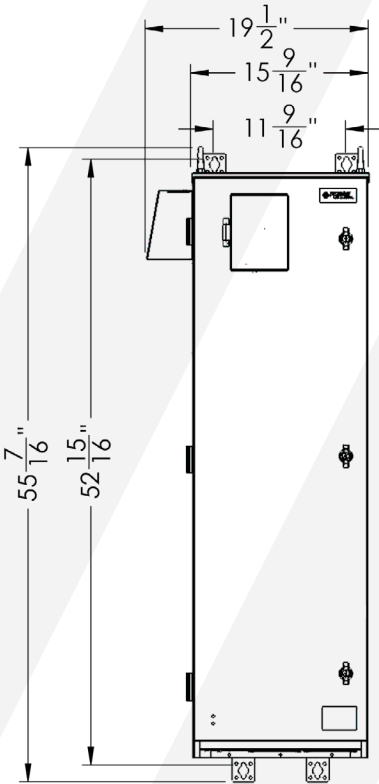
Model / Part Number	HP	Fuse Rating (Recommended)	Circuit Breaker Rating (Recommended)
SDX405	5	15 A, 600 V	15 A
SDX407	7.5	20 A, 600 V	20 A
SDX410	10	25 A, 600 V	325A
SDX415	15	35 A, 600 V	35 A
SDX420	20	40 A, 600 V	40 A
SDX425	25	50 A, 600 V	50 A
SDX430	30	60 A, 600 V	60 A
SDX440	40	80 A, 600 V	80 A
SDX450	50	100 A, 600 V	100 A
SDX460	60	125 A, 600 V	125 A
SDX475	75	150 A, 600 V	150 A
SDX4100	100	200 A, 600 V	200 A



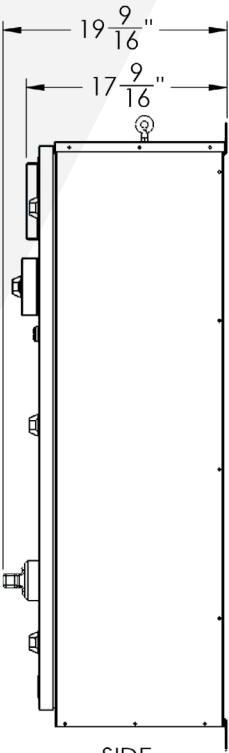
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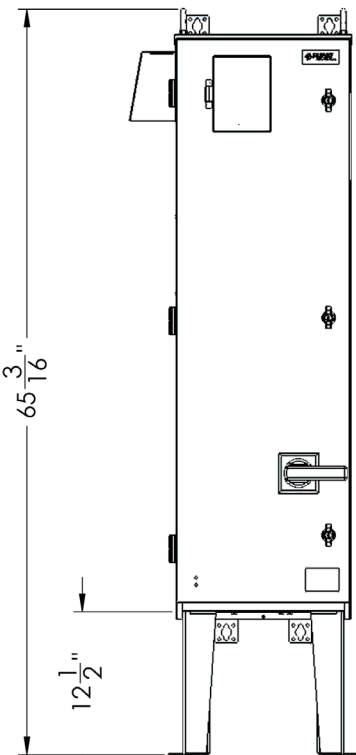
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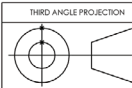
FRONT



SIDE



SHOWN WITH OPTIONAL LEG KIT  
AND MCCB



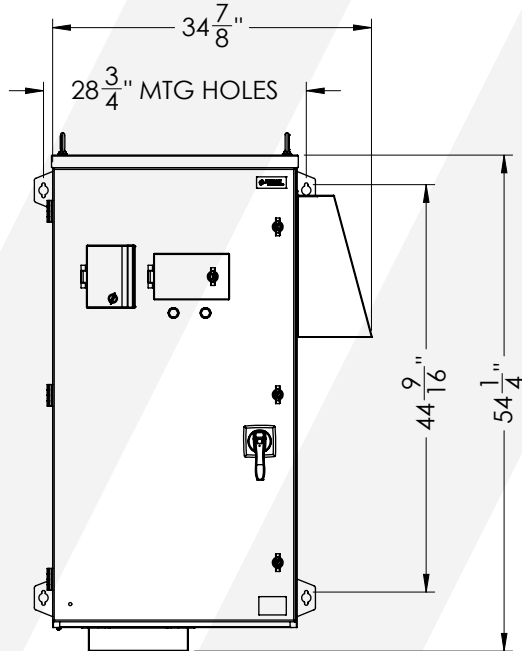
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Drawn by: <b>OH</b>		Checked/Approved by:	
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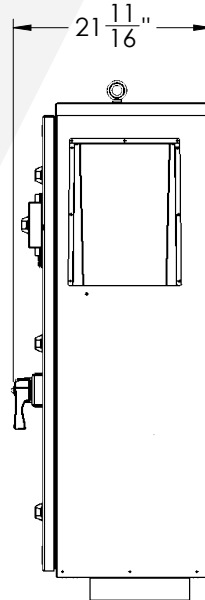
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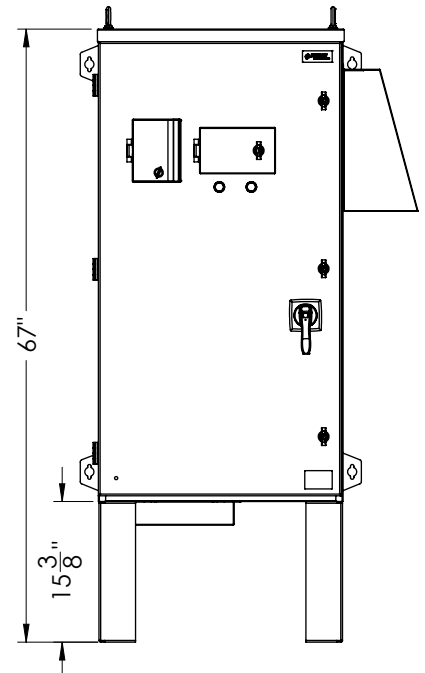
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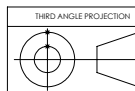
FRONT



SIDE



OPTIONAL LEG KIT



UNLESS OTHERWISE SPECIFIED:  
 NO DIM.  $\pm 0.060$ " TO MODEL  
 FRACTIONAL  $\pm 1/16$ "  
 0.XX:  $\pm 0.06$ " 0.XXX:  $\pm 0.020$ "  
 ANGLES:  $\pm 1^\circ$   
 HOLE  $\varnothing$ :  $\pm 0.003$ " TO MODEL  
 HOLE  $\oplus$ :  $\pm 0.010$ " TO MODEL  
 WELD: ANSI STANDARD

MASS = 0.000lb

Drawing Title:

**ENC4A Standard Enclosure**

Part Number:

Revision:

**0**

Material:

Finish:

**N/A**

Drawn by:

Checked/Approved by:

**JLT**

Scale:

**1:15**

Sheet:

**1 of 1**

Date:

**11/26/2024**

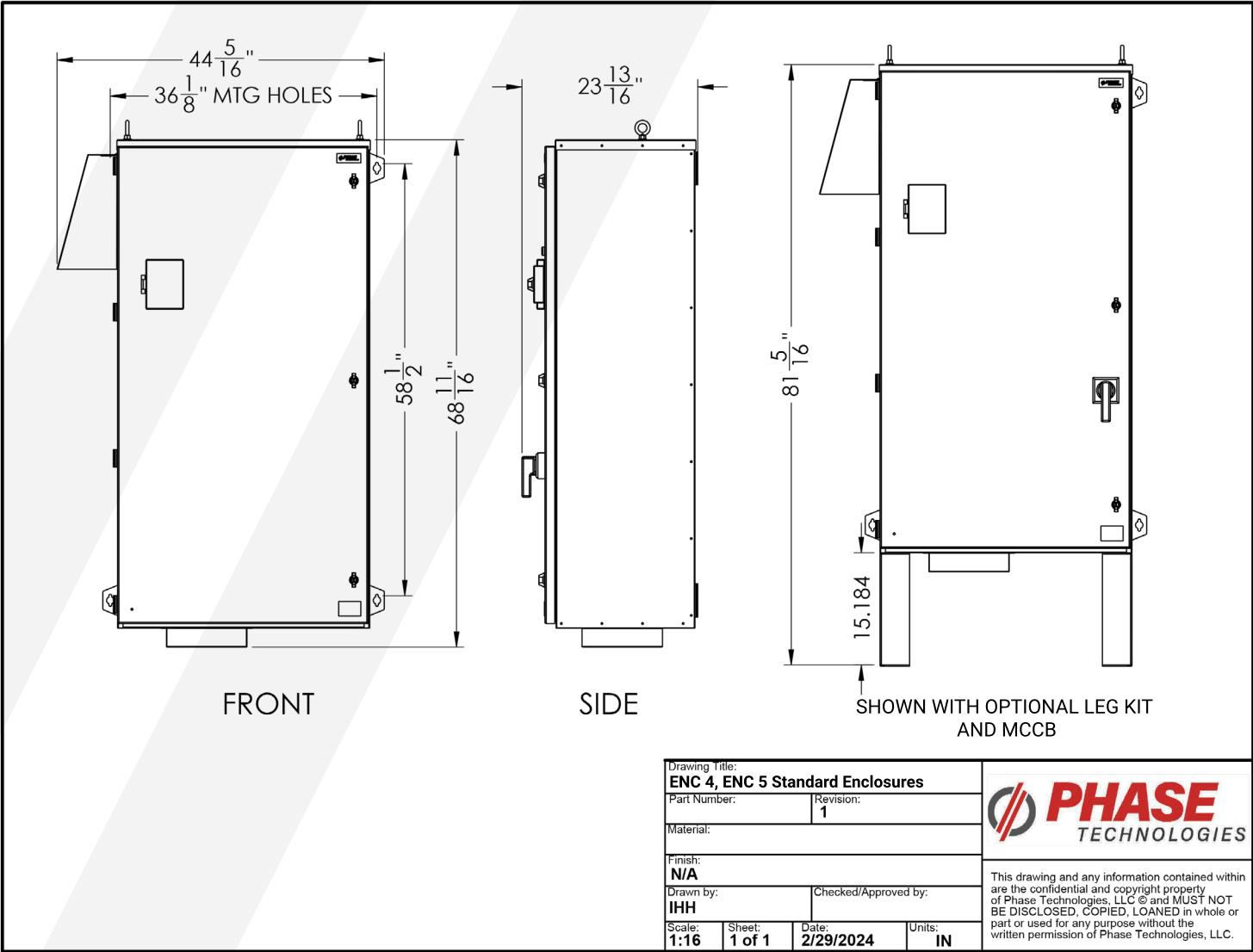
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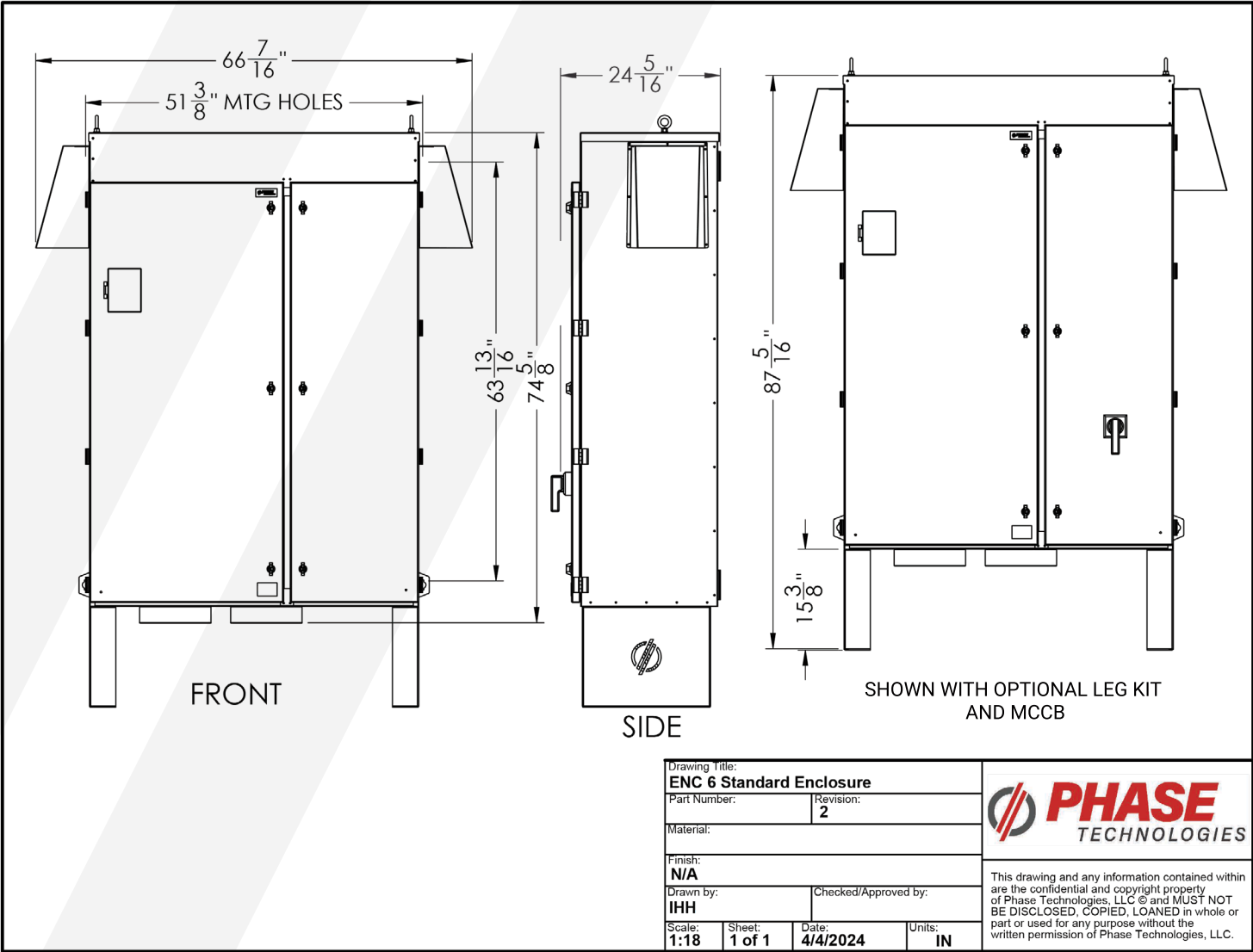

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ENC5



ENC6





INTUITIVELY ENGINEERED



**DIGITAL PHASE  
CONVERTERS**

**VARIABLE  
FREQUENCY  
DRIVES**

**MOTOR  
PROTECTION**

**STARTER  
PANELS**

## **OUR MISSION**

*Relentlessly seek to provide Uncommon Value, solutions, innovation, and support for the industries that we serve.*

