

# DXL

## GENERAL PURPOSE

VARIABLE FREQUENCY DRIVES



## 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 Open, NEMA Type 1: Indoor
Altitude	Altitude Derate by 1% every 400 ft above 3300 ft elevation

## Input Power

Input Phase	Three-phase
Input Voltage	230V   460V
Input Voltage Range	190V – 264V   440V – 520V
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 - 500 HP
Output Power	1.5 - 300 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

<i>Model / Part Number</i>	<i>HP</i>	<i>Rated Current (Input)</i>	<i>Rated Current (Output)</i>	<i>Fuse Rating (Recommended)</i>	<i>Circuit Breaker Rating (Recommended)</i>
<b>DXL005</b>	5	18 A	18 A	20 A, 600 V	20 A
<b>DXL007</b>	7.5	25 A	25 A	30 A, 600 V	30 A
<b>DXL010</b>	10	31 A	31 A	40 A, 600 V	40 A
<b>DXL015</b>	15	46 A	46 A	60 A, 600 V	60 A
<b>DXL020</b>	20	61 A	61 A	80 A, 600 V	80 A
<b>DXL025</b>	25	75 A	75 A	100 A, 600 V	100 A
<b>DXL030</b>	30	91 A	91 A	125 A, 600 V	125 A





## 460V

460V

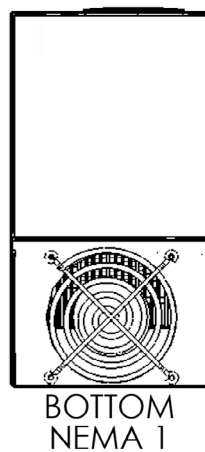
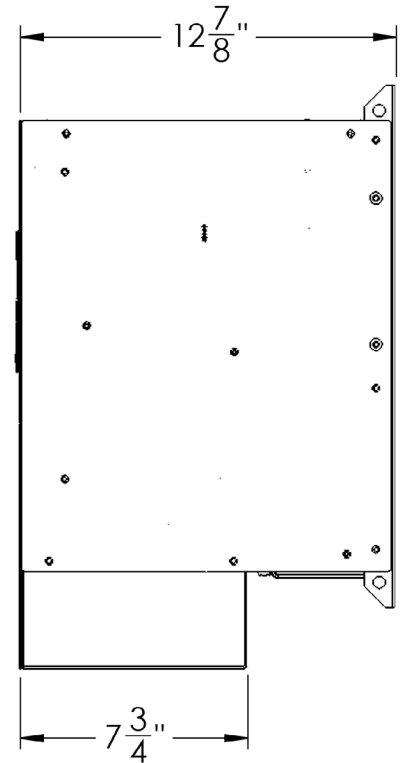
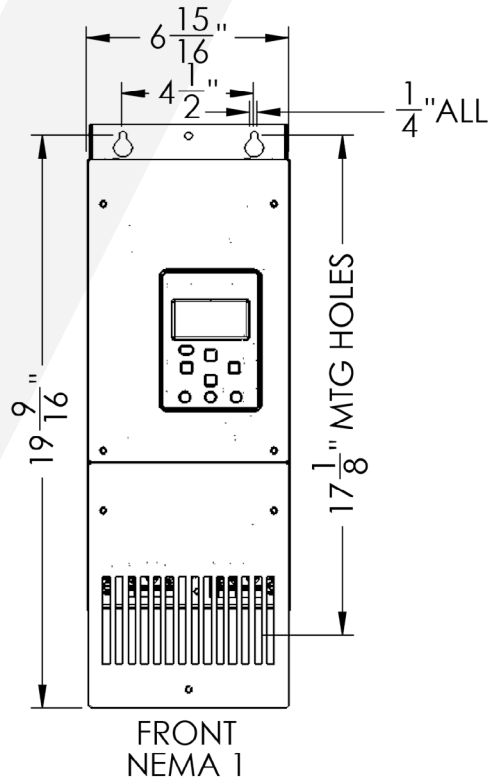
Model / Part Number	HP	Rated Current (Input)	Rated Current (Output)	Fuse Rating (Recommended)	Circuit Breaker Rating (Recommended)
DXL405	5	9 A	9 A	20 A, 600 V	20 A
DXL407	7.5	13 A	13 A	20 A, 600 V	20 A
DXL410	10	18 A	18 A	30 A, 600 V	30 A
DXL415	15	25 A	25 A	30 A, 600 V	30 A
DXL420	20	31 A	31 A	40 A, 600 V	40 A
DXL425	25	38 A	38 A	50 A, 600 V	50 A
DXL430	30	46 A	46 A	60 A, 600 V	60 A
DXL440	40	61 A	61 A	80 A, 600 V	80 A
DXL450	50	77 A	77 A	100 A, 600 V	100 A
DXL460	60	91 A	91 A	125 A, 600 V	125 A
DXL475	75	101 A	107 A	150 A, 600 V	150 A
DXL4100	100	134 A	142 A	200 A, 600 V	200 A
DXL4125	125	163 A	172 A	225 A, 600 V	225 A
DXL4150	150	188 A	198 A	250 A, 600 V	250 A
DXL4200	200	237 A	250 A	350 A, 600 V	350 A
DXL4250	250	288 A	304 A	400 A, 600 V	400 A
DXL4300	300	346 A	362 A	500 A, 600 V	500 A
DXL4350	350	394 A	415 A	600 A, 600 V	600 A
DXL4400	400	454 A	478 A	600 A, 600 V	600 A
DXL4500	500	560 A	590 A	800 A, 600 V	800 A



## D1

### MODEL NUMBER

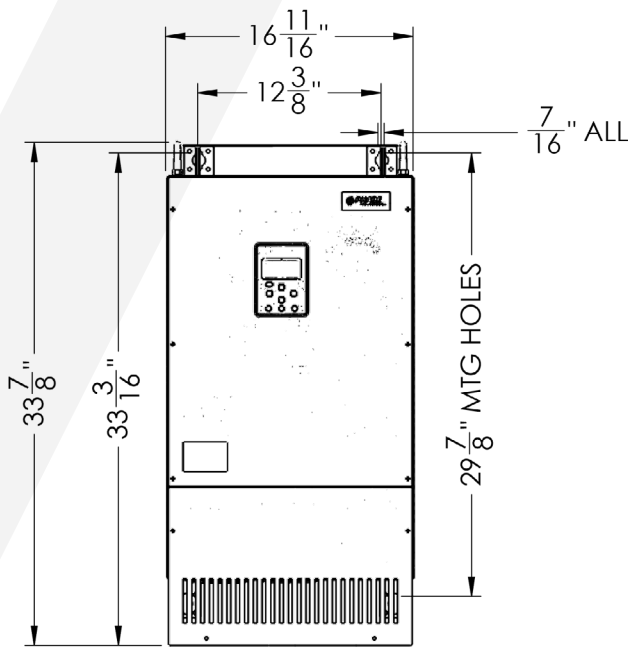
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DXL015
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DXL415
DXL420
DXL425
DXL430
DXL440
DXL450
DXL460



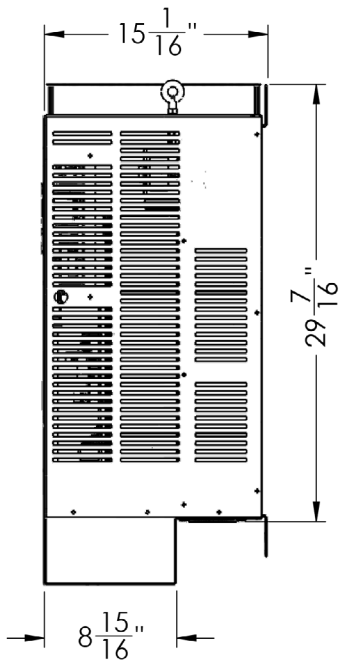
D2

MODEL  
NUMBER

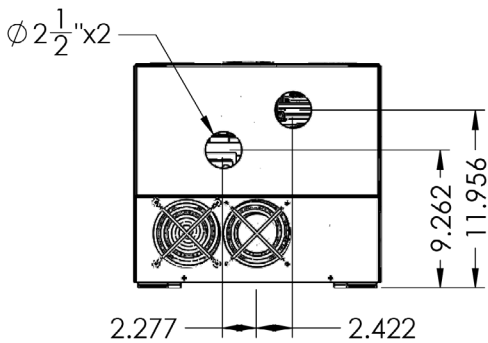
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DXL4100
DXL4125
DXL4150
DXL4200
DXL4250



FRONT  
NEMA 1



SIDE  
NEMA 1



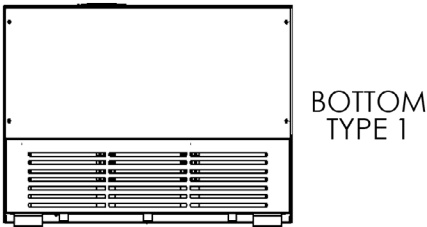
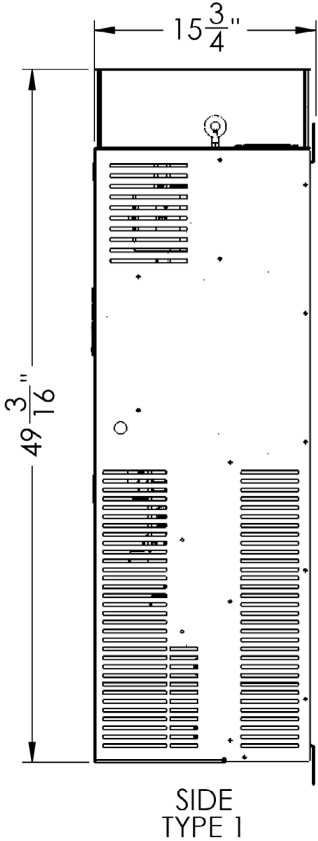
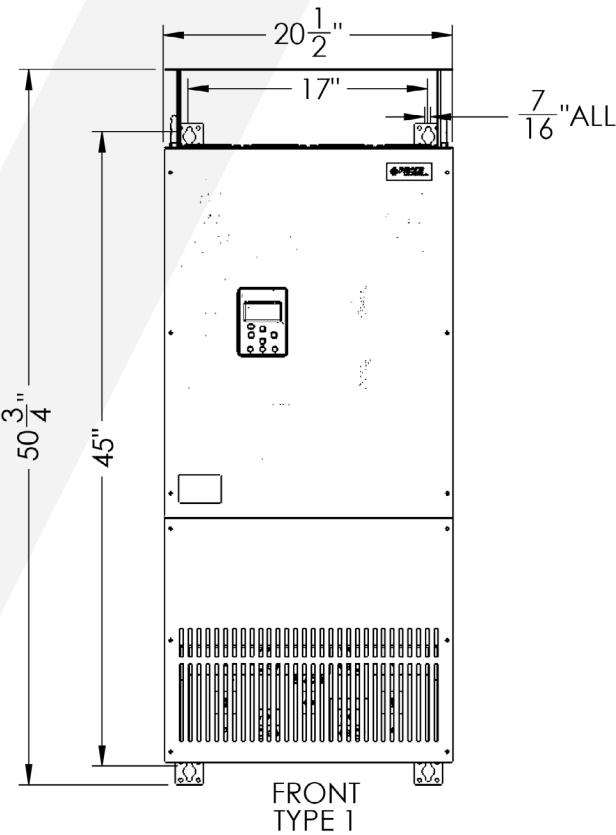
BOTTOM  
NEMA 1



D3

MODEL  
NUMBER

DXL4300
DXL4350
DXL4400
DXL4500



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.*



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