



PRODUCT SPECIFICATIONS

DXLM SERIES

VARIABLE FREQUENCY DRIVE

Six Pulse | Three-Phase

2 HP to 5 HP

PHASE



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DXLM SERIES

Simple Installation

Perfect Pressure™ Programming

- User-friendly constant pressure setup wizard

Superior Design

- Rugged all steel enclosure
- NEMA 1
- Made in the USA

Industry Best Lead Times

- Expedite options available

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Nomenclature



SERIES
DXLM405R

VOLTAGE
0 = 230 V
4 = 460 V

HP

ENCLOSURE TYPE
Blank = NEMA 1
R = NEMA 3R

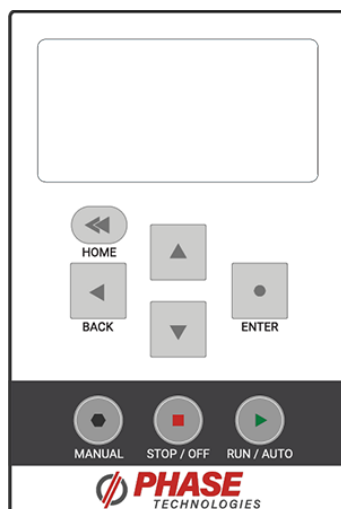
Technical Specifications

Physical / Environmental	
Operating Temperature Range	−40 °C – 40 °C (−40 °F – 104 °F) <i>*Heater in enclosure may be required below −40 °C, de-rating required above 40 °C.</i>
Storage Temperature Range	−40 °C – 57 °C (−40 °F – 135 °F)
Enclosure	NEMA Type 1: Indoor
Altitude	Derate by 5 °C every 2000 ft over 5500 ft of elevation
Input Power	
Input Phase	single-phase or three-phase
Input Voltage	230 V 460 V
Input Voltage Range	190 V – 264 V 440 V – 520 V
Input Frequency	50/60 Hz
Output Power	
Output Phase	three-phase
Nominal Output Voltage	230 V 460 V
Output Voltage Range	190 V – 264V 440 V – 520 V
Output Frequency	5 Hz – 120 Hz
Horsepower	2 HP – 5 HP
Output Power	1.5 - 6 kW
Switching Frequency	2 kHz – 5 kHz
Output	V/f Control
Integrated Output Filter	None
Electrical	
Short Circuit Withstand Rating	5 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
Input Filter	No

Input/Output Specifications

Analog Inputs	
Quantity	(2) Programmable
Current Reference	4 – 20 mA, (2) Inputs
Voltage Reference	0 – 5 VDC, (1) Input
Terminal Block Size	26 – 12 AWG
Digital Inputs	
Quantity	(2) Programmable
Ratings	< 5 V, galvanically isolated
Terminal Block Size	26 – 12 AWG
Relay Outputs	
Quantity	(2) Programmable
Rating	Relay 1 : 5 VDC, 7 A or 250 VAC Relay 2 : 5 VDC, 7 A or 250 VAC
Terminal Block Size	26 – 12 AWG
Modbus	
Communication	No
Connection Type	N/A
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
Available Feature Sets	AquaPhase™ (pump control)

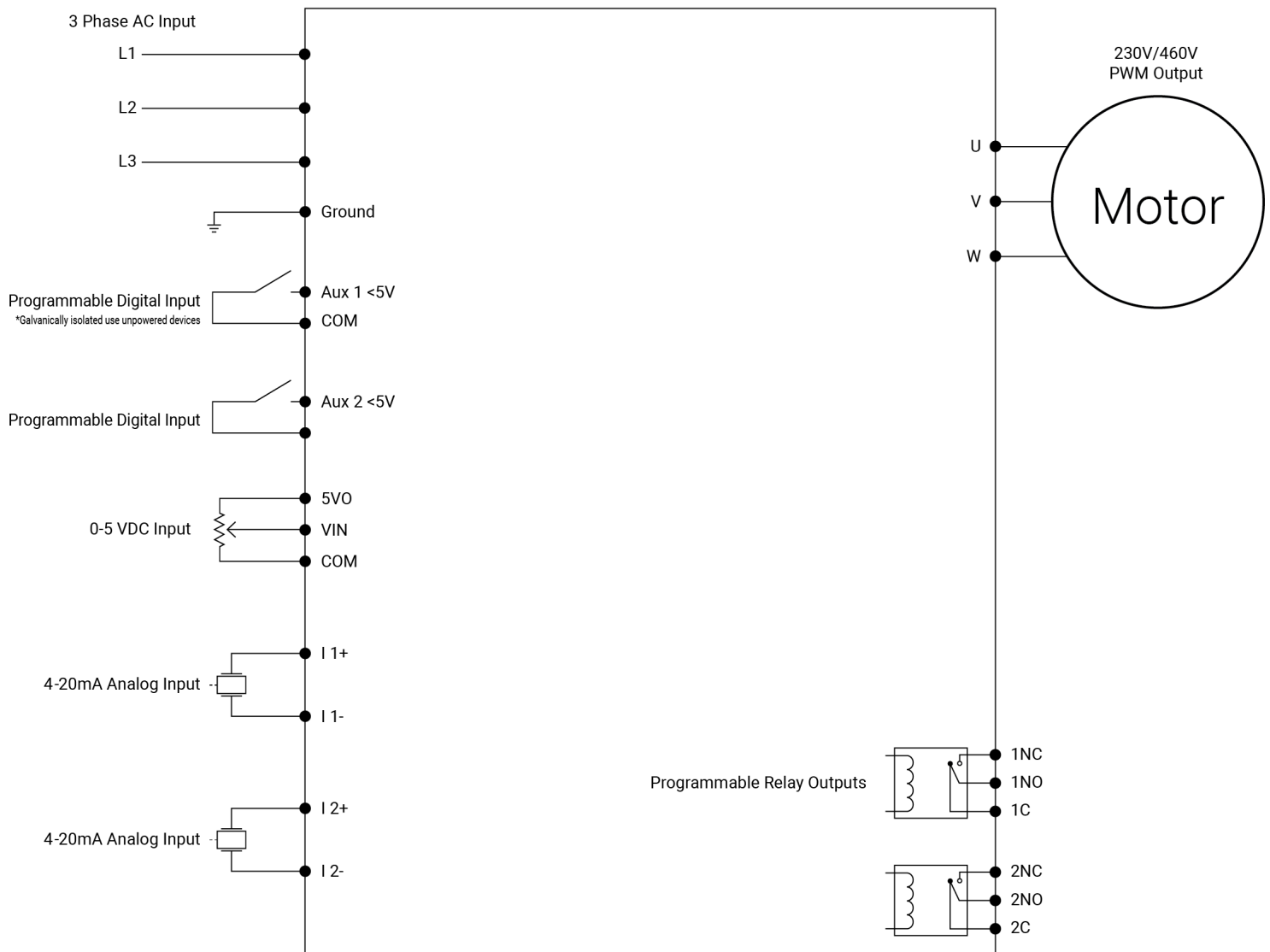
User Interface



Eight button keypad and digital display standard on all DXLM models

Wiring Diagram

DXLM
SERIES *Wiring Diagram*



Models

Single-Phase Input

Part Number	HP	Rated Input Current	Rated Output Current	Rated Output Current	Dimensions (H x W x D)	Weight
DXLM — 208 V/230 V Input Three—Phase 208 V/230 V Output Three—Phase *Derate by one size for 208 V input.						
DXLM002	2 HP	9 A	9 A	4.5 A	15.1 x 9.1 x 5.6 in.	-
DXLM003	3 HP	12 A	12 A	6 A	15.1 x 9.1 x 5.6 in.	-
DXLM005	5 HP	18 A	18 A	9 A	15.1 x 9.1 x 5.6 in.	-
DXLM — 460 V Input Three—Phase 460 V Output Three—Phase						
DXLM402	2 HP	4 A	4 A	2 A	14.7 x 9.9 x 5.3 in.	-
DXLM403	3 HP	5.4 A	5.4 A	2.7 A	14.7 x 9.9 x 5.3 in.	-
DXLM405	5 HP	9 A	9 A	4.5 A	14.7 x 9.9 x 5.3 in.	-

Recommended Breaker Sizes

Model Number	Horsepower	Recommended Fuse Rating Class J	Recommended Circuit Breaker Rating
DXLM — 230 V Input Three—Phase 230 V Input Three—Phase			
DXLM002	2 HP	15 A, 600 V	15 A
DXLM003	3 HP	15 A, 600 V	15 A
DXLM005	5 HP	30 A, 600 V	30 A
DXLM — 460 V Input Three—Phase 460 V Input Three—Phase			
DXLM402	2 HP	15 A, 600 V	15 A
DXLM403	3 HP	15 A, 600 V	15 A
DXLM405	5 HP	15 A, 600 V	15 A

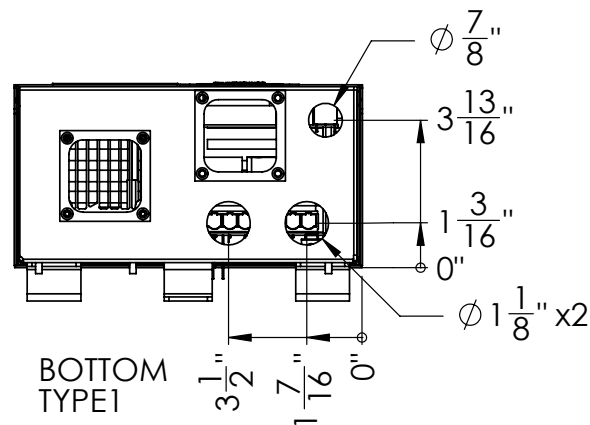
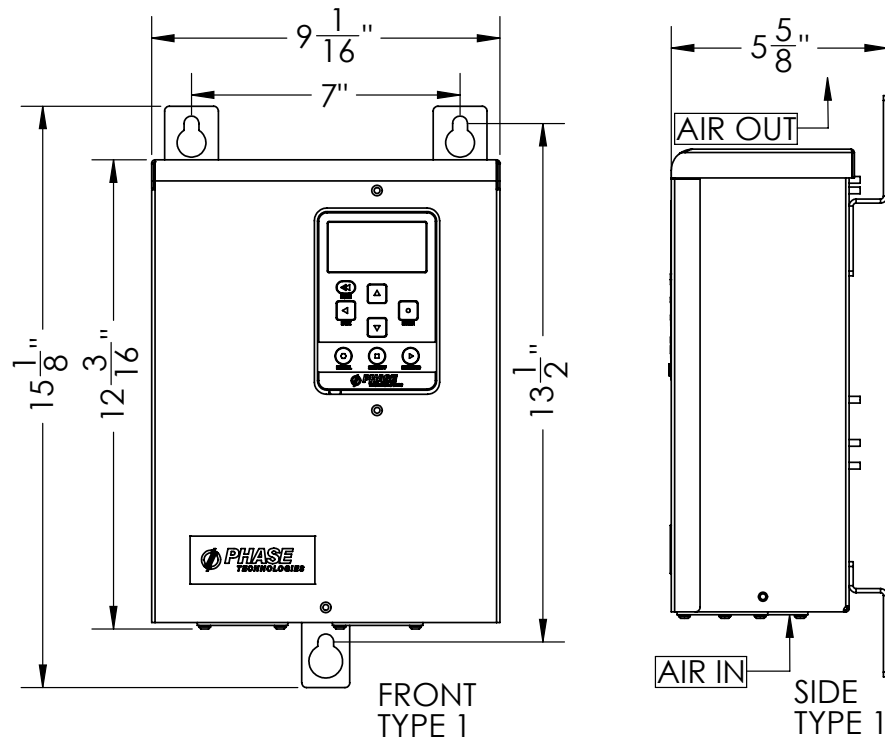


Line Drawings



005

Model Number
DXLM002
DXLM003
DXLM005

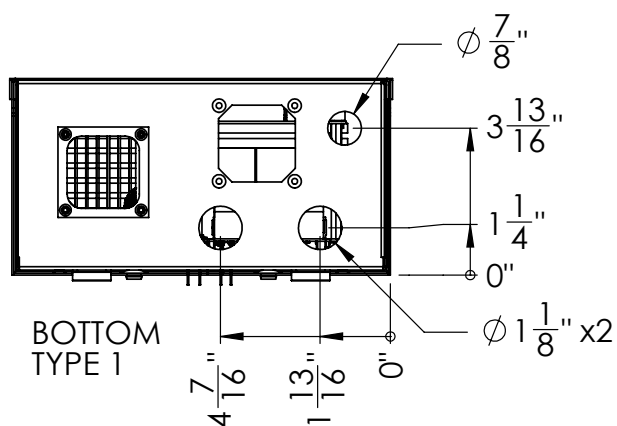
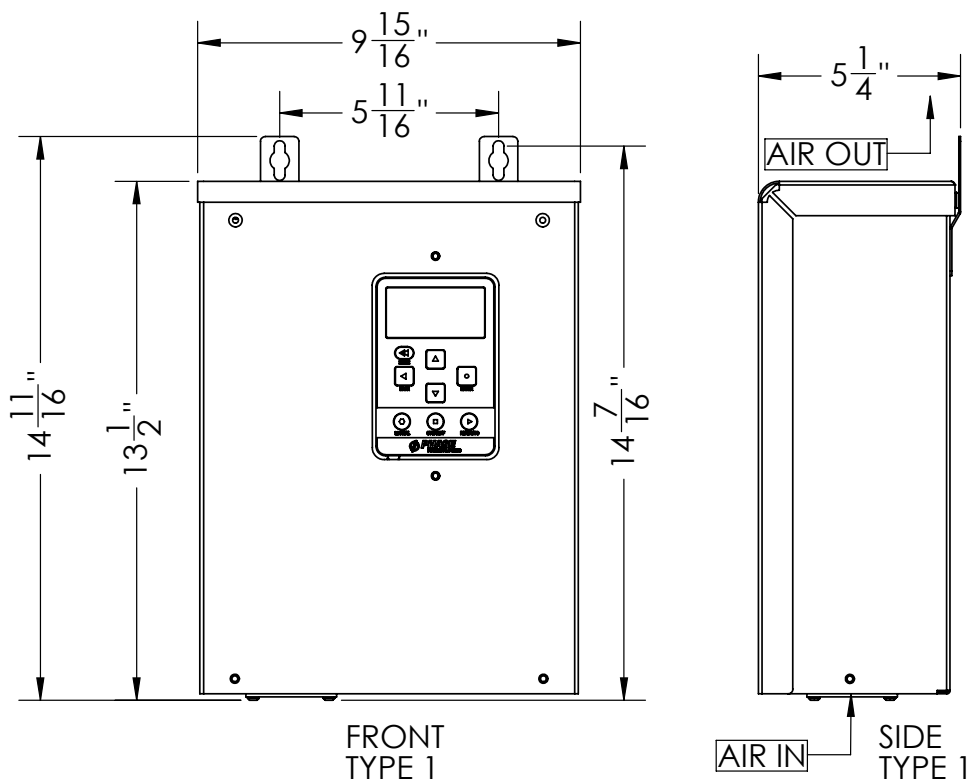


Line Drawings



405

Model Number
DXLM402
DXLM403
DXLM405



Notes
