230Z Series



FEATURES

- > Oil-less non-lube piston and cylinder
- > Permanently lubricated bearings
- > Stainless steel valves
- > Cylinder hard coated for wear resistance
- > Lightweight die cast aluminum components
- > Balanced for smooth, low vibration operation
- > All wetted aluminum parts treated for corrosion resistance
- > Brushless DC motor for variable output, long life and low energy consumption
- > RoHS compliant



230ZA30/12





TYPICAL APPLICATIONS

- > Portable Oxygen Concentrator
- > Small Analytical Equipment
- > Instrumentation
- > Ambient Scenting
- > Lab Automation

CUSTOMER REQUIREMENTS

- > Supplemental cooling air flow to compressor to be integrated into thermal management system to ensure that proper installation and operating environment is maintained in keeping with the product specifications
- > BLDC motor requires separate motor controller (not included) Optional ZB Series BLDC controller offers off-the-shelf integration, featuring variable speed PWM input signal for full speed range flexibility, and closed loop speed operation for consistent performance.



230Z Series

Flow	.74 cfm (20.8 l/min)
Max. pressure	30 psi (2.1 bar)
Max. vacuum	N/A Pressure Only



Max. pressure restart

Max. vacuum

Max. vacuum restart

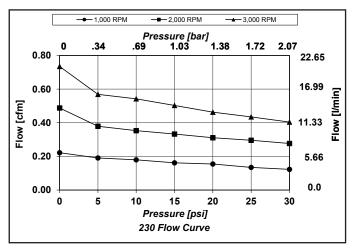




30 psi (2.1 bar)

Not available

Not available



30 psi (2.1 bar)

Not available

Not available

PERFORMANCE DATA 230ZA30/12 Model Number **Head Configuration** Pressure only Stroke 0.30 in. (7.6 mm) 13V DC Nominal voltage input 12V DC 12V DC Variable output speed 1,000 rpm 2,000 rpm 3,000 rpm Max. open air flow 0.22 cfm (6.3 l/min) 0.49 cfm (13.8 l/min) 0.74 cfm (20.8 l/min) Max. rated pressure 30 psi (2.1 bar) 30 psi (2.1 bar) 30 psi (2.1 bar) 2.9A 5.1A Current at rated pressure 3.7A Power at rated pressure 34.3W 44.7W 65.8W

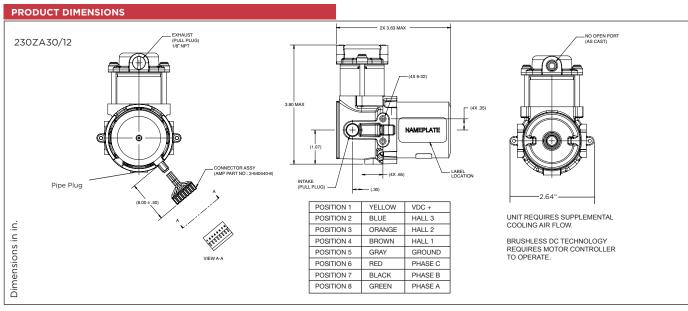
30 psi (2.1 bar)

Not available

Not available

ELECTRICAL DATA	
Motor Type	8 pole brushless DC, 3 phase
Motor Insulation class	155°C maximum winding temperature
Motor protection	No
	Optional Thomas ZB Series BLDC controller will provide stall protection
Power lead wire color, gauge	Green (phase A), black(phase B), red (phase C), 22 AWG
Hall sensor wire color, gauge	Yellow (+VDC), brown (HS1), orange (HS2), blue (HS3), gray (ground), 22 AWG

GENERAL DATA		
Operaring ambient temperature	50° TO 104° F (10 to 40 °C)	
Safety Certification	Consult factory	
Net weight	12 lbs (0.4 kg)	



PUMP AND COMPRESSOR SOLUTIONS FOR OEMS WORLDWIDE





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The information presented in this material is based on technical data and test results of nominal units. It is believed to be accurate and reliable and is offered as an aid to help in the selection of Thomas products. It is the responsibility of the user to determine the suitability of the product for the intended use and the user assumes all risk and liability in connection there with. Thomas does not warrant, guarantee or assume any obligation or liability in connection with this information.

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