

2110Z Series

FEATURES

- > Oil-less operation
- > Permanently lubricated bearings
- > Stainless steel valves
- > High performance piston seal
- > Magnesium or Aluminum die-cast components
- > Corrosion resistant wetted parts
- > Dynamically balanced
- > Brushless DC motor
- > RoHS/Reach compliant

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 motor controller - SKCNTLR optional Thomas controller available in sample quantities

BASE MODEL



2110ZA26/12M
2110ZA26/12



2110ZA26/12M
Magnesium Die Cast Components



2110ZA26/12
Aluminum Die Cast Components



WOB-L®

2110Z Series

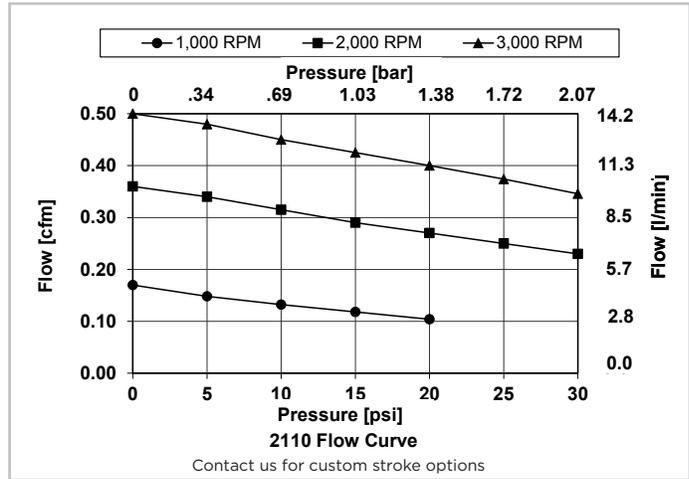
| | |
|---------------|-----------------------|
| Flow | 0.50 cfm (14.1 l/min) |
| Max. pressure | 30 psig (2.1 bar) |
| Max. vacuum | N/A Pressure Only |



2110ZA26/12M
Magnesium Die Cast
Components



2110ZA26/12
Aluminum Die Cast
Components



PERFORMANCE DATA

| | | | |
|---------------------------|---|----------------------|-----------------------|
| Model Number | 2110ZA26/12M (Mg Version) OR 2110ZA26/12 (Al Version) | | |
| Head Configuration | Pressure parallel flow | | |
| Stroke | 0.26 in. (6.6 mm) | | |
| Nominal voltage input | 12V DC | 12V DC | 12V DC |
| Variable output speed | 1,000 rpm | 2,000 rpm | 3,000 rpm |
| Max. open air flow | 0.17 cfm (4.8 l/min) | 0.34 cfm (9.6 l/min) | 0.50 cfm (14.1 l/min) |
| Max. rated pressure | 20 psi (1.4 bar) | 30 psig (2.1 bar) | 30 psig (2.1 bar) |
| Current at rated pressure | 2.6A | 3.9A | 4.8A |
| Power at rated pressure | 32W | 47W | 58W |
| Max. pressure restart | 20 psig (1.4 bar) | 30 psig (2.1 bar) | 30 psig (2.1 bar) |
| Max. vacuum | Not available | Not available | Not available |
| Max. vacuum restart | Not available | Not available | Not available |

ELECTRICAL DATA

| | |
|-------------------------------|--|
| Motor type | 8 pole brushless DC, 3 phase |
| Motor insulation class | 155°C maximum winding temperature |
| Motor protection | Not included - Customer to integrate into system controller |
| | Optional SKCNTLR Thomas controller disables motor for stall, temperature, & amps |
| 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

| | |
|-------------------------------|---|
| Operating ambient temperature | 50° TO 104° F (10° to 40°C)* |
| Safety Certification | Consult factory |
| Net weight | 2110ZA26/12M (Mg version) = 0.72 lbs (325g) OR 2110ZA26/12 (Al version) = 0.85 lbs (387g) |

*Broader ambient operating ranges may be possible depending on your specific application. Please consult factory regarding your particular system needs.

PRODUCT DIMENSIONS

2110ZA26/12

180° SWIVEL
90° SWIVEL

CONNECTOR (AMP # 3-640428-3)
CONNECTOR (AMP # 3-640440-5)
EXHAUST T-TUBE OD .43 ID .25

4X INTAKE 1/16-27 NPT

Dimensions in in [mm]

[43.5] 1.71
[56.6] 2.23
[90.1] 3.55
[48.7] 1.92
[23.6] .93
[17.3] .68
[47.8] 1.88
[74.6] 2.94
[107.2] 4.22

NOTE:

EXHAUST T-TUBE IS COMPRISED OF FLEXIBLE SILICONE RUBBER AND HAS THE ABILITY TO SWIVEL ABOUT HEAD BARBED FITTINGS.

UNIT REQUIRES SUPPLEMENTAL COOLING AIR FLOW.

BRUSHLESS DC TECHNOLOGY REQUIRES MOTOR CONTROLLER TO OPERATE.

LEAD CONFIGURATION:
HALL SENSOR: 11.50 ±0.50
POSITION 1 - YELLOW
POSITION 2 - BROWN
POSITION 3 - ORANGE
POSITION 4 - BLUE
POSITION 5 - GRAY

LINE: 11.50 ±0.50
POSITION 1 - GREEN
POSITION 2 - BLACK
POSITION 3 - RED

PUMP AND COMPRESSOR SOLUTIONS FOR OEMS WORLDWIDE

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