

Z1000 Bypass

1 HP to 500 HP

AC Fan and Pump Applications

HVAC Optimized with Intelligent Bypass and Advanced BAS Interface. The Z1000 drive sets a new benchmark for cost, performance, benefits and quality.

Z1000 Bypass - What is it?

- Two Contactor Bypass
- 100k AIC Package Rating
- Input “Non-Fused” Disconnect
- Drive H-O-A Keypad used for Bypass
- Standard Digital Inputs (5)
 - Run
 - Safety
 - BAS Interlock
 - Auto Transfer to Bypass
 - Smoke Purge
- Programmable Digital Inputs (3)
- Form “C” Programmable Relays (4)
- All Bypass Functions Work with Serial Communications, including BACnet, Metasys, APOGEE and Ethernet
- Phase Loss & Low Voltage Monitor - Protects Against Contactor Coil Burn-out
- Motor Amp Display in Bypass
- Duct Pressurization Function (Pre-run)

OPTIONS

- ▶ **Circuit Breaker - 100k AIC**
- ▶ **Drive Input Service Switch**
- ▶ **Three Contactor Bypass**
- ▶ **Custom Nameplates**
- ▶ **LonWorks**
- ▶ **Metasys N2 Installed**
- ▶ **Apogee FLN Installed**

Z1000 Intelligent Bypass

- Intelligent bypass, when enabled, can transfer the motor across the line when the application requires 60Hz
- Most HVAC systems require 60Hz at peak demand (Summer Months – Daytime)
- Removes the drive at 60Hz and saves energy
- Removes the drive at 60Hz and eliminates harmonics at worse case scenario

Yaskawa America Inc.’s Patent Pending Technology



Z1000 Bypass

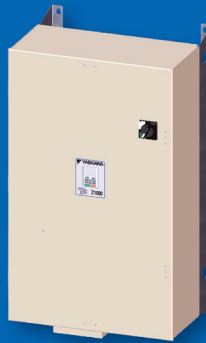
| Model Number Z1B1xxxx | Rated Output Current (Amps) | HP | NEMA 1 Bypass Overall Dimensions (in.) | | | Enclosure Type |
|--------------------------|--------------------------------|------|---|-------|-------|------------------------|
| | | | H | W | D | |
| D002 | 2.4 | 0.5 | 41.60 | 6.77 | 12.92 | IP20 NEMA Type 1 |
| D003 | 3.5 | 0.75 | | | | |
| D004 | 4.6 | 1 | | | | |
| D007 | 7.5 | 2 | | | | |
| D010 | 10.6 | 3 | | | | |
| D016 | 16.7 | 5 | 45.10 | 6.77 | 12.92 | |
| D024 | 24.2 | 7.5 | | | | |
| D030 | 30.8 | 10 | | | | |
| D046 | 46.2 | 15 | 48.20 | 10.18 | 13.19 | |
| D059 | 59.4 | 20 | | | | |
| D074 | 74.8 | 25 | 52.80 | 12.68 | 14.20 | |
| D088 | 88.0 | 30 | | | | |
| D114 | 114.0 | 40 | 42.79 | 25.80 | 16.06 | |
| D143 | 143.0 | 50 | | | | |
| D169 | 169.0 | 60 | 49.09 | 28.41 | 19.03 | |
| D211 | 211.0 | 75 | | | | |
| D273 | 273.0 | 100 | 86.04 | 41.26 | 33.94 | |
| D343 | 343.0 | 125 | | | | |
| D396 | 396.0 | 150 | | | | |

| Model Number Z1B1xxxx | Rated Output Current (Amps) | HP | NEMA 1 Bypass Overall Dimensions (in.) | | | Enclosure Type |
|--------------------------|--------------------------------|------------|---|-------|-------|------------------------|
| | | | H | W | D | |
| B001 | 1.6 | 0.5 & 0.75 | 41.60 | 6.77 | 12.92 | IP20 NEMA Type 1 |
| B002 | 2.1 | 1 | | | | |
| B003 | 3.4 | 2 | | | | |
| B004 | 4.8 | 3 | | | | |
| B007 | 7.6 | 5 | | | | |
| B011 | 11.0 | 7.5 | 45.40 | 6.77 | 12.92 | |
| B014 | 14.0 | 10 | | | | |
| B021 | 21.0 | 15 | | | | |
| B027 | 27.0 | 20 | 48.20 | 10.18 | 13.19 | |
| B034 | 34.0 | 25 | | | | |
| B040 | 40.0 | 30 | 52.80 | 12.68 | 14.20 | |
| B052 | 52.0 | 40 | | | | |
| B065 | 65.0 | 50 | 42.79 | 25.80 | 16.06 | |
| B077 | 77.0 | 60 | | | | |
| B096 | 96.0 | 75 | 49.09 | 28.41 | 19.03 | |
| B124 | 124.0 | 100 | | | | |
| B156 | 156.0 | 125 | 86.04 | 41.26 | 33.94 | |
| B180 | 180.0 | 150 | | | | |
| B240 | 240.0 | 200 | | | | |
| B302 | 302.0 | 250 | Consult Factory | | | |
| B361 | 361.0 | 300 | | | | |
| B414 | 414.0 | 350 | | | | |
| B477 | 477.0 | 400 | | | | |
| B515 | 515.0 | 450 | | | | |
| B590 | 590.0 | 500 | | | | |



NEMA 1 Wall-Mount Over/Under

- 1 - 25HP, 208V
- 1 - 60HP, 480V



NEMA 1 Wall-Mount Enclosed

- 30 - 75HP, 208V
- 75 - 150HP, 480V



NEMA 1 Free-Standing

- 100 - 150HP, 208V
- 200 - 500HP, 480V