

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.

NEMA 1 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)
- Built-in BACnet protocol (BTL certified), Apogee, Metasys, Modbus/Memobus accessible via RS-422/485 communication, which is standard
- Phase Loss & Low Voltage Monitor - Protects Against Contactor Coil Burn-out
- Motor Amp Display in Bypass
- Duct Pressurization Function (Pre-run)
- Bypass Sync

OPTIONS

- ▶ **Circuit Breaker - 100K AIC**
- ▶ **Drive Input Service Switch**
- ▶ **Three Contactor Bypass**
- ▶ **Custom Nameplate**
- ▶ **EtherNet/IP**
- ▶ **LonWorks**

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 peak performance



Yaskawa America Inc.'s Patent Pending Technology



Z1000 Bypass

NEMA 12 Z1000 Bypass

Z1000 bypass and configured packages are available with a NEMA 12 (UL Type 12) enclosure option.

Fans, when required are provided with Type 12 rated filters to maintain a Type 12 rating on the enclosure.

The bypass comes standard as a 2-contactor style with input disconnect switch.

The configured unit comes standard with an input disconnect.

Both offer several commonly used options in their standard packages.

Standard Construction Features include:

- 12 Gauge Steel
- Padlock Hasp
- Integral ¼ Turn Door Latches
- Whole Door Gasket
- Lifting Eyes
- Removable Air Filter from Outside of Cabinet



NEMA 3R Z1000 Bypass

Z1000 bypass and configured packages are offered with a NEMA 3R (UL Type 3R) enclosure option.

The bypass comes standard with a flange mount main input circuit breaker and a 3-contactor style, allowing motor operation from either the drive or across the line.

The configured unit comes standard with an input disconnect.

Both have been designed for flexibility in providing the features and options commonly specified by facility designers.

Standard Construction Features include:

- 12 Gauge Steel
- Padlock Hasp
- Integral ¼ Turn Door Latches
- Whole Door Gasket
- Brass Hinges
- UV/Type 3R Keypad Membrane
- Lifting Eyes
- Stainless Steel Hardware
- Sun Reflective White Powder Coat Paint