

# 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

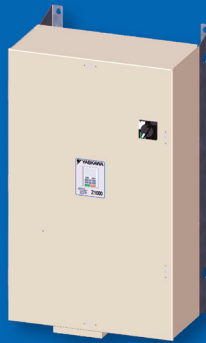
Model Number Z1B1xxxx	Rated Output Current (Amps)	HP	NEMA 1 Bypass Overall Dimensions (in.)			Enclosure Type
			H	W	D	
D002	2.4	0.5	41.60	6.77	12.92	IP20 NEMA Type 1
D003	3.5	0.75				
D004	4.6	1				
D007	7.5	2				
D010	10.6	3				
D016	16.7	5				
D024	24.2	7.5	45.10	6.77	12.92	
D030	30.8	10	48.20	10.18	13.19	
D046	46.2	15				
D059	59.4	20	52.80	12.68	14.20	
D074	74.8	25	42.79	25.80	16.06	
D088	88.0	30				
D114	114.0	40	49.09	28.41	19.03	
D143	143.0	50				
D169	169.0	60	86.04	41.26	33.94	
D211	211.0	75				
D273	273.0	100				
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				
B014	14.0	10	45.40	6.77	12.92	
B021	21.0	15	48.20	10.18	13.19	
B027	27.0	20				
B034	34.0	25	52.80	12.68	14.20	
B040	40.0	30	42.79	25.80	16.06	
B052	52.0	40				
B065	65.0	50	52.80	12.68	14.20	
B077	77.0	60	49.09	28.41	19.03	
B096	96.0	75				
B124	124.0	100	86.04	41.26	33.94	
B156	156.0	125				
B180	180.0	150				
B240	240.0	200				
B302	302.0	250				
B361	361.0	300	49.09	28.41	19.03	
B414	414.0	350				
B477	477.0	400	Consult Factory			
B515	515.0	450	Consult Factory			
B590	590.0	500	Consult Factory			



**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