



Z2000 Series Advanced Vector Control Inverter





Z2000 Series

Compact Vector Control

- Senseless flux vector control (VC)
 V/F (Voltage/Frequency) Control
- Overload capacity is 60s for 150% of the rated current,
 3s for 180% of the rated current.
- There are ten auxiliary frequency sources.
- It can implement fine tuning of auxiliary frequency and frequency synthesis
- Support PM motor (Z2000 T series)
- Power range: 220V 0.4~7.5kW 380V 0.75~450kW

Technical Specification

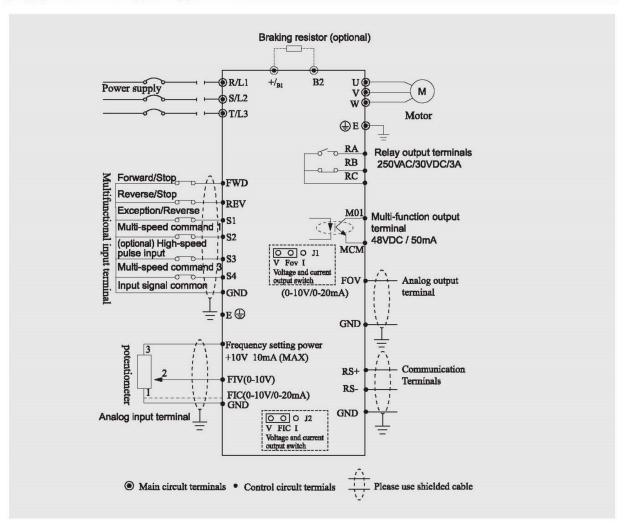
Item		Z2000								
	Control mode	Senseless flux vector control(SFVC) Voltage/Frequency (V/F) control								
	Maximum frequency	Vector control: 0-320Hz V/F control: 0-3200Hz								
	Carrier frequency	1-16kHz The carrier frequency is automatically adjusted based on the load features								
	Input frequency solution	Digital setting: 0.01Hz Analog setting: maximum frequency x 0.025%								
	Startup torque	G type: 0.5Hz/150%(SFVC) P type: 0.5Hz/100%								
	Speed range	1:100								
	Speed stability accuracy	±0.5%								
	Overload capacity	type: 60s for 150% of the rated current, 3s for 180% of the rated current. type: 60s for 120% of the rated current, 3s for 150% of the rated current								
	Torque boost	Auto boost; Customized boost 0.1%-30.0%								
	V/F curve	Line V/F curve; Multi-point V/F curve; N-power V/F curve								
Standard	V/F separation	Two types: complete separation; half separation								
function	Ramp mode	Straight-line ramp; S-curve ramp; Four groups of acceleration/deceleration time with the range of 0.0-6500.0s								
	DC braking	DC braking frequency: 0.0Hz to maximum frequency Braking time: 0.0~100.0s Braking action current value: 0.0%~100.0%								
	JOG control	JOG frequency range: 0.00~50.00Hz JOG acceleration/deceleration time: 0.0~6500.0s								
	Onboard multiple preset speeds	It implements up to 16 speeds via the simple PLC function or combination of \boldsymbol{X} terminal states.								
	Onboard PID	It realizes process-controlled closed loop control system easily								
	Auto voltage regulation (AVR)	It can keep constant output voltage automatically when the mains voltage changes.								
	Auto voltage/ Over current stall control	The current and voltage are limited automatically during the running process so as to avoid frequent tripping due to overvoltage/ over current								
	Rapid current limit	It helps to avoid frequent over current faults of the AC drive								
	Torque limit and control	It can keep constant output voltage automatically when the mains voltage changes								

Specification

Model	Rated Output Power (kW)	Rated Input Current (A)	Rated Output Current (A)	Motor Equipped (kW)
nput Voltage(V): 1PH/3PH AC22	0V±15%			
Z2200-0R4G	0.4	5.4	2.5	0.4
Z2200-0R75G	0.75	7.2	5	0.75
Z2200-1R5G	1.5	10	7	1.5
Z2200-2R2G	2.2	16	11	2.2
Z2200-3R7G	3.7	23	16.5	3.7
Z2200-5R5G	5.5	21	25	5.5
Z2200-7R5G	7.5	31	32	7.5
put Voltage(V): 3PH AC380V±1	15%			
Z2400-0R75G	0.75	3.8	2.5	0.75
Z2400-1R5G	1.5	5	3.7	1.5
Z2400-2R2G	2.2	5.8	5	2.2
Z2400-3R7G/5R5P	3.7/5.5	10/15.0	9.0/13	3.7/5.5
Z2400-5R5G	5.5	15	13	5.5
Z2400-7R5P	7.5	20	17	7.5
Z2400-7R5G/11P	7.5/11	20/26	17/25	7.5/11
Z2400-11G/15P	11/15.0	26/35	25/32	11/15.0
Z2400-15G/18.5P	15/18.5	35/38	32/37	15/18.5
Z2400-18.5G/22P	18.5/22	38/46	37/45	18.5/22
Z2400-22G/30P	22/30	46/62	45/60	22/30
Z2400-30G/37P	30/37	62/76	60/75	30/37
Z2400-37G/45P	37/45	76/90	75/90	37/45
Z2400-45G/55P	45/55	90/105	90/110	45/55
Z2400-55G	55	105	110	55
Z2400-75P	75	140	150	75
Z2400-75G/90P	75/90	140/160	150/176	75/90
Z2400-90G/110P	90/110	160/210	176/210	90/110
Z2400-110G/132P	110/132	210/240	210/253	110/132
Z2400-132G/160P	132/160	240/290	253/300	132/160
Z2400-160G/185P	160/185	290/330	300/340	160/185
Z2400-185G/200P	185/200	330/370	340/380	185/200
Z2400-200G/220P	200/220	370/410	380/420	200/220
Z2400-220G/250P	220/250	410/460	420/470	220/250
Z2400-250G/280P	250/280	460/500	470/520	250/280
Z2400-280G/315P	280/315	500/580	520/600	280/315
Z2400-315G/350P	315/350	580/620	600/640	315/350
Z2400-350G/400P	350/400	620/670	640/690	350/400
Z2400-400G/450P	400/450	670/790	690/790	400/450
Z2400-450G/500P	450/500	790/835	790/860	450/500

1

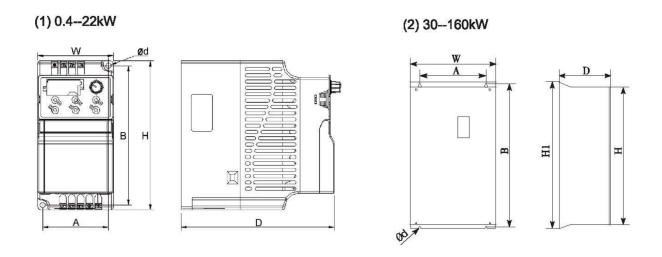
Typical Wiring diagram



Remark:

1:Below 37kW(include 37kW) built-in braking unit, built-in braking unit of 45~160kW are optional 2:Built-in DC reactor of 30~160kW are optional.

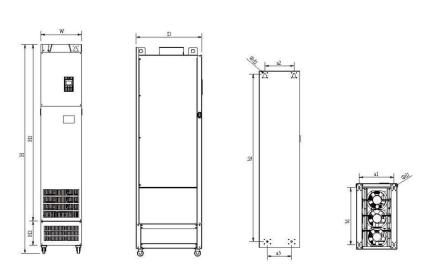
Dimension Unit:mm



Z2000 Series Compact Vector Control

Madal	Oı	utline Dim	ension(r	nm)	Instal	Reactor			
Model	W	Н	H1	D	Α	В	Φd	(Optional)	
Z2200-0R4G									
Z2200-0R75G	72	142	-	152	62.7	132.7	5	_	
Z2200-1R5G									
Z2200-2R2G	400	183	_	143	-00	4=0	5		
Z2200-3R7G	100				90	173			
Z2200-5R5G	400	200		404	400	050	-		
Z2200-7R5G	130	260	_	184	120	250	5	_	
Z2400-0R4G									
Z2400-0R75G	70	440	_	152	62.7	132.7	5	_	
Z2400-1R5G	72	142							
Z2400-2R2G									
Z2400-3R7G/5R5P	400	400		440	00	470	-		
Z2400-5R5G	100	183	_	143	90	173	5	_	
Z2400-7R5P	130	260	,—,	184	120	250	5	_	
Z2400-7R5G/11P									
Z2400-11G/15P									
Z2400-15G/18.5P									
Z2400-18.5G/22P	195	280	-	179	182.5	266	7	_	
Z2400-22G/30P									
Z2400-30G/37P	245	390	405	193	180	410	7		
Z2400-37G/45P	240	390	425	193	160	410	7		
Z2400-45G/55P								D DO	
Z2400-55G	300	500	540	252	200	522	9	Built-in Do	
Z2400-75P								(Optional)	
Z2400-75G/90P	338	546	576	256.5	270	560	9	(Opuonai)	
Z2400-90G/110P	338	550	580	300	270	564	9		
Z2400-110G/132P	330	550	560	300	270	504	9		
Z2400-132G/160P	400	675	715	310	320	695	11	Without DC reactor	
Z2400-160G/185P	400	010	/15	310	320	090	11		
Z2400-132G/160PZ	400	871.5	915	310	320	895	11	Built-in DC	
Z2400-160G/185PZ	400	0/1.5	910	310	320	090	-11	reactor	

(3) 185-450kW



Model	Outline Dimension(mm)				Cabinet Size(mm)			Wall Mounted Size(mm)				
Model	W	D	H	H1	H2	a1	b1	d1	a2	a3	b2	d2
Z2400-185G/200P				145 1180	200	250	430	14	200	150	1135	13
Z2400-200G/220P	300	500	1445									
Z2400-220G/250P												
Z2400-250G/280P	330	545	1595	1330	200	280	475	14	220	185	1275	13
Z2400-280G/315P	205	545	1495	1230	200	275	470	14	225	185	1175	14
Z2400-315G/350P	325											
Z2400-350G/400P			1720	1455	200	285	470	14	240	200	1380	14
Z2400-400G/450P	335	545										
Z2400-450G/500P												