

StellarSpace

T9000

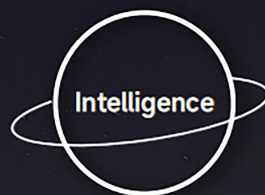
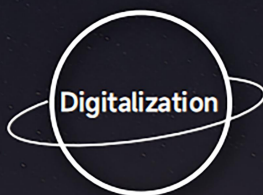
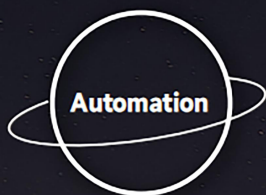
High Performance Inverter



About StellarSpace

Since its inception, StellarSpace focus on general industrial areas, including automation, digitalization, and intelligence in the industrial sector.

We have variable cutting edge technologies covering hundreds of hardware products and software products, as well as multiple industrial solutions. We built leading level R&D capability for industrial automation products, including Program mable Logic Controllers (PLC), Drives, Motors, etc. We also produce other general industrial products. These solutions are extensively applied across light industry, heavy industry, high-end equipment manufacturing, and other applications. Our customer can be benifit from our smart, precise, and high efficiency industrail solutions, driving intelligent manufacturing while empowering industrial digital and intelligent transformation.



Product Introduction



Safety

- Integrated safety function STO, meet SIL1 class



Communication Integration

- RS-485 Modbus is integrated.
- Option units for EtherCAT, CompoNet, and DeviceNet.



Positioning

- Speed synchronisation
- Speed synchronisation without additional programming
- Speed synchronisation without additional programming



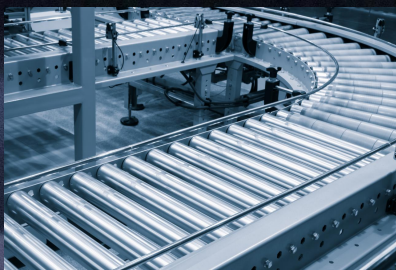
Motor Control

- Surface Permanent Magnet Motor
- Interior Permanent Magnet Motor
- Induction Motor

Applicable Industries



Wind Power Industry



Material Handling



Water and wastewater



Textile Industry



Food and Beverage Industry



Medical Industry

Technique Specification

Item		T9000
Basic function	Control Mode	V/F control Sensorless flux vector control (SVC) Close-loop vector control (FVC)(Above 7.5kW)
	Maximum frequency	600Hz
	Carrier frequency	0.5kHz - 16kHz The carrier frequency is automatically adjusted based on the load features.
	Input frequency resolution	Digital setting: 0.01Hz Analog setting: Maximum frequency x 0.025%
	Start torque	Digital setting: 0.01Hz Analog setting: Maximum frequency x 0.025%
	Speed range	1: 100 (SVC)
	Speed stability accuracy	±0.5%(SVC)
Basic function	Overload capacity	G Type: 60s for 150% of the rated current, 3s for 180% of the rated current. P 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	Straight - line V/F curveMulti - point V/F curve N - power V/F curve (1.2-power, 1.4-power, 1.6-power, 1.8-power, square)
	V/F separation	2 types: complete separation; half separation
	Ramp Mode	Straight - line ramp. Four groups of acceleration/deceleration time with the range of 0.00 - 6500.0s
	DC braking	DC braking frequency: 0.00Hz - Maximum frequency Braking time: 0.0s - 36.0s Braking action current value: 0.0% - 100.0%
	JOG control	JOG frequency range: 0.00Hz - 50.00Hz JOG acceleration/deceleration time: 0.0s - 6500.0s
	Simple PLC, Multiple preset speeds	It implements up to 16 speeds via the simple PLC function or combination of 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
	Overvoltage/overcurrent stall control	The current and voltage are limited automatically during the running process so as to avoid frequent tripping due to over voltage/over current
	Rapid current limit	It helps to avoid frequent over current faults of the AC drive
	Torque limit and control	It can limit the torque automatically and prevent frequent over current tripping during the running process. Torque control can be implemented in the FVC mode

Technique Specification

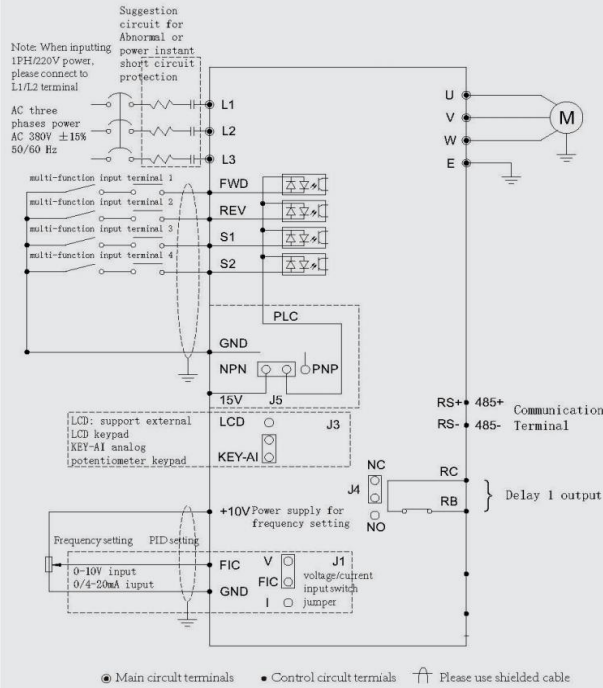
Item		T9000
Individualized functions	High performance	Control of asynchronous motor are implemented through the high-performance current vector control technology
	Rapid dip ride through	The load feedback energy compensates the voltage reduction so that the AC drive can continue to run for a short time
	Rapid current limit	It helps to avoid frequent over current faults of the AC drive
	Timing control	Timing range: 0.0Min - 6500.0Min
	Communication methods	RS - 485
	Support for multiple PG card	Support for differential input PG card,resolver PG card,rotating transformer PG card...
Running	Command source	Operation panel/Control terminals/Serial communication port You can perform switchover between these sources in various ways
	Frequency source	There are ten frequency sources. Digital setting, analog voltage setting, analog current setting, pulse setting, serial port setting.You can perform switchover in various ways
	Auxiliary frequency source	There are ten auxiliary frequency sources. It can implement fine tuning of auxiliary frequency and frequency synthesis
	Input terminal	Standard: 4 digital input terminals(Below 5.5kW) /6 digital input terminals(Above 7.5kW); 1 analog input terminal(Below 5.5kW)/2 analog input terminals(Above 7.5kW); 1 voltage input (only support for 0 - 10V, above 7.5kW), 1 voltage input(0 - 10V) or current input (4 - 20mA)
	Output terminal	1 High-speed pulse output terminal (Open-collector) (Above 3.7kW) 1 relay output terminal (Below 5.5kW)/2 relay output terminals(Above 7.5kW) 1 analog output terminal(3.7kW - 5.5kW)/2 analog output terminal(Above 7.5kW), Support for 4 - 20mA current output or 0 - 10V voltage output
Display and operation panel	LED display	It displays the parameters
	Key locking and function selection	It can lock the keys partially or completely and define the function range of some keys so as to prevent mal-function
	Protection mode	Motor short-circuit detection at power-on, input/output phase loss protection, over current protection, over voltage protection, under voltage protection, overheat protection and overload protection
Environment	Installation location	Indoor, free from direct sunlight, dust, corrosive gas, combustible gas, oil smoke, vapor, drip or salt.
	Altitude	Lower than 1000m
	Ambient temperature	-10°C ~ + 40°C(de-rated if the ambient temperature is between 40°C ~ 50°C)
	Humidity	Less than 95%RH, without condensing
	Vibration	Less than 5.9m/s²(0.6g)
	Storage temperature	- 20°C - +60°C

Selection Guide

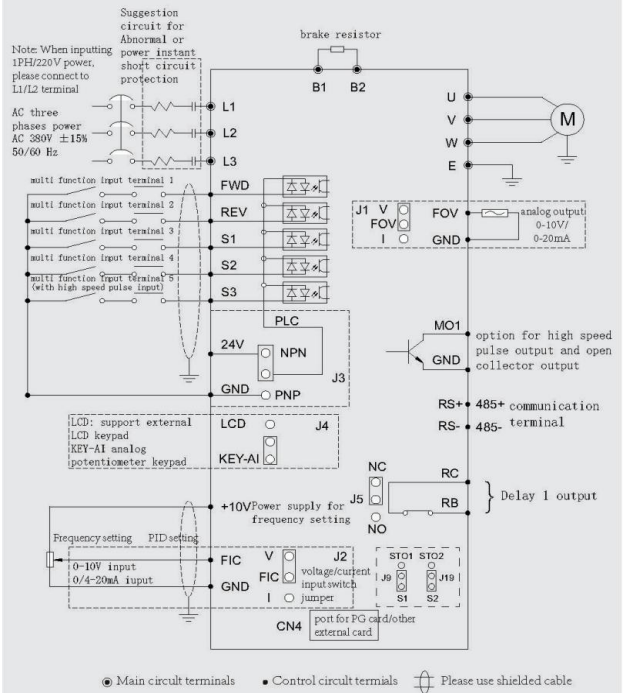
Model	Rated output power(kW)	Rated input current(A)	Rated output current(A)	Motor Power(kW)
1PH AC220V±15%				
T9200 - 0R4G	0.4	5.4	2.1	0.4
T9200 - 0R75G	0.75	7.2	3.8	0.75
T9200 - 1R5G	1.5	10	7.2	1.5
T9200 - 2R2G	2.2	16	9	2.2
T9200 - 3R7G	3.7	17	17	3.7
3PH AC380V±15%				
T9400 - 0R4G	0.4	3.4	1.5	0.4
T9400 - 0R75G	0.75	3.8	2.1	0.75
T9400 - 1R5G	1.5	5	3.8	1.5
T9400 - 2R2G	2.2	5.8	5.1	2.2
T9400 - 3R7G/5R5P	3.7/5.5	10/15	9/13	3.7/5.5
T9400 - 5R5G/7R5P	5.5/7.5	15/20	13/17	5.5/7.5
T9400 - 7R5G/11P	7.5/11	20/26	17/25	7.5/11
T9400 - 11G/15P	11/15	26/35	25/32	11/15
T9400 - 15G/18.5P	15/18.5	35/38	32/37	15/18.5
T9400 - 18.5G/22P	18.5/22	38/46	37/45	18.5/22
T9400 - 22G/30P	22/30	46/62	45/60	22/30
T9400 - 30G/37P	30/37	62/76	60/75	30/37
T9400 - 37G/45P	37/45	76/90	75/91	37/45
T9400 - 45G/55P	45/55	90/105	91/112	45/55
T9400 - 55G/75P	55	105	112	55
T9400 - 75P	75	140	150	75
T9400 - 75G/90P	75/90	140/160	150/176	75/90
T9400 - 90G/110P	90/110	160/210	176/210	90/110
T9400 - 110G/132P	110/132	210/240	210/253	110/132
T9400 - 132G/160P	132/160	240/290	253/304	132/160
T9400 - 160G/185P	160/185	290/330	304/340	160/185
T9400 - 185G/200P	185/200	330/370	340/377	185/200
T9400 - 200G/220P	200/220	370/410	377/426	200/220
T9400 - 220G/250P	220/250	410/460	426/485	220/250
T9400 - 250G/280P	250/280	460/500	465/525	250/280
T9400 - 280G/315P	280/315	500/580	520/580	280/315
T9400 - 315G/350P	315/350	580/620	585/650	315/350
T9400 - 350G/400P	350/400	620/670	650/725	350/400
T9400 - 400G/450P	400/450	670/790	725/820	400/450
T9400 - 450G/500P	450/500	790/835	820/880	450/500
T9400 - 500G/560P	500/560	835/960	880/950	500/560
T9400 - 560G/630P	560/630	960/1112	950/1100	560/630
T9400 - 630G/710P	630/710	1112/1290	1100/1280	630/710
T9400 - 710G/800P	710/800	1290/1472	1280/1380	710/800
T9400 - 800G/900P	800/900	1472/1680	1380/1640	800/900
T9400 - 900G/1000P	900/1000	1680/1800	1640/1720	900/1000
T9400 - 1000G	1000	1800	1720	1000
T9400 - 1200G	1200	2180	2100	1200

Wiring Diagram

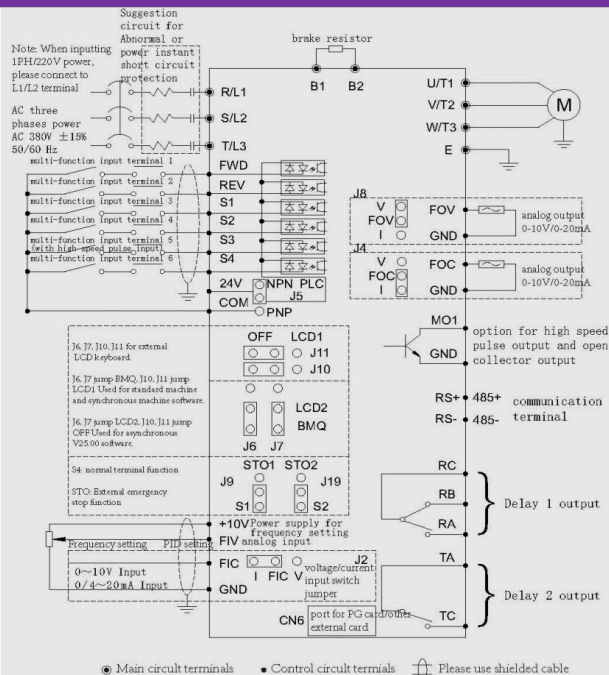
1. 1PH/220V 0.4-2.2kW&3PH/380V 0.4-2.2kW (VF控制)



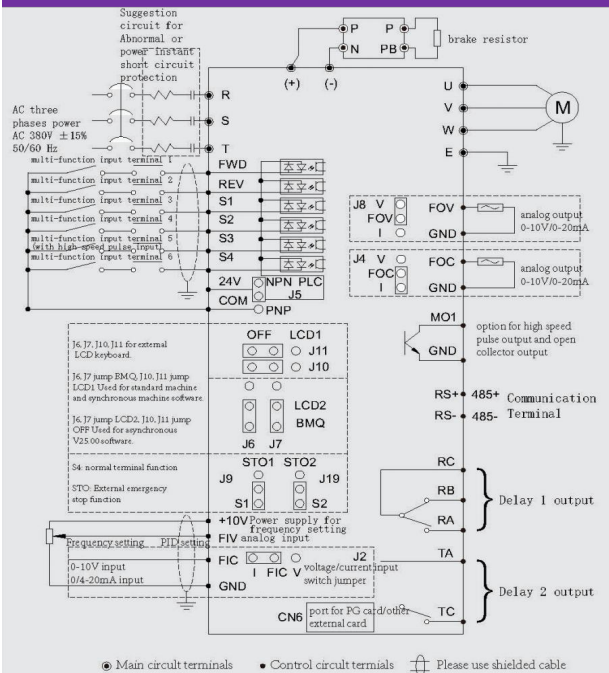
2. 1PH/220V 0.4-3.7kW&3PH/380V 0.4-5.5kW (矢量控制)



3. 220V/5.5-7.5kW&380V/7.5kW-160kW



4. 380V/185kW-1200kW

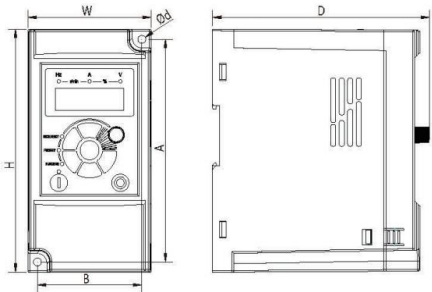


Note: 220V/ 5.5-7.5kw &380V-415V/ 7.5-37kw standard built-in braking unit, 45kW-160kW braking unit optional.

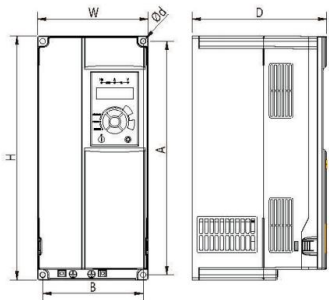
Dimension

SIZE	Model	W	H	D	A	B	Φd
A	T9200 - 0R4G	72	142	127	130	61	4.5
	T9200 - 0R75G						
	T9200 - 1R5G						
	T9200 - 2R2G -VF						
	T9400 - 0R4G						
	T9400 - 0R75G						
	T9400 - 1R5G						
	T9400 - 2R2G						
	T9200 - 2R2G	85	180	131	167	72	5.5
	T9200 - 3R7G						
	T9400 -3R7G/5R5P						
	T9400 -5R5G/7R5P						
B	T9400 - 7R5G/11P	106	240	168	230	96	4.5
	T9400 - 11G/15P						
	T9400 -15G/18.5P	151	332	183	318	137	7
	T9400 -18.5G/22P						
	T9400 - 22G/30P						
	T9400 - 30G/37P	217	400	216	385	202	7
	T9400 - 37G/45P						

SIZE A



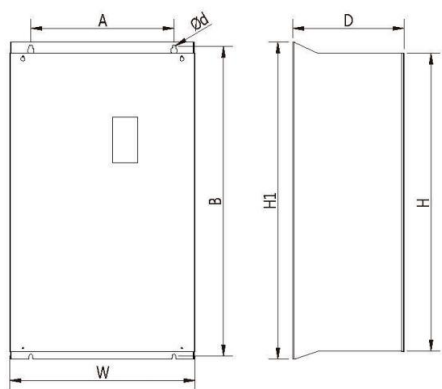
SIZE B



Dimension

SIZE	Model	W	H	H1	D	A	B	Φd
C	T9400 - 45G/55P	300	440	470	240	200	455	9
	T9400 - 55G							
	T9400 - 75P							
	T9400 - 75G/90P	275	590	630	310	200	612	9
	T9400 -90G/110P							
	T9400 110G/132P							
	T9400 132G/160P	400	675	715	310	320	695	11
	T9400 160G/185P							

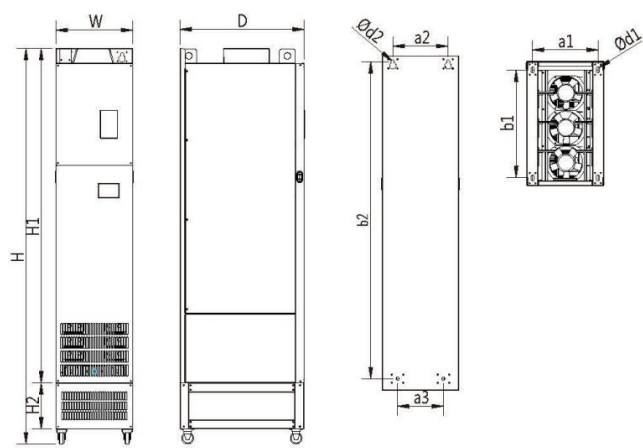
SIZE C



Dimension

SIZE	Model	Overall Dimensions (mm)					Cabinet Size (mm)			Wall Mounted Size (mm)			
		W	H	H1	H2	D	a1	b1	d1	a2	a3	b2	b2
D	T9400-185G/200P	300	301	302	303	304	305	306	307	308	309	310	311
	T9400 - 200G/220P												
	T9400 - 220G/250P												
	T9400 - 250G/280P	330	1595	1330	200	545	280	475	14	220	185	1275	13
	T9400 - 280G/315P	325	1495	1230	200	545	275	470	14	225	185	1175	14
	T9400 - 315G/350P												
	T9400 - 350G/400P	335	1720	1455	200	545	285	470	14	240	200	1380	14
	T9400 - 400G/450P												
	T9400 - 450G/500P												

SIZE D

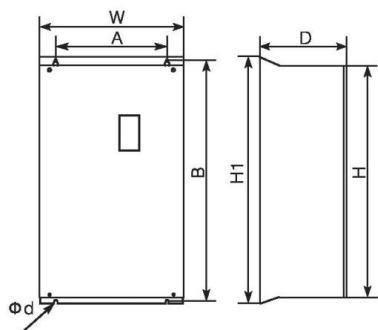


Dimension

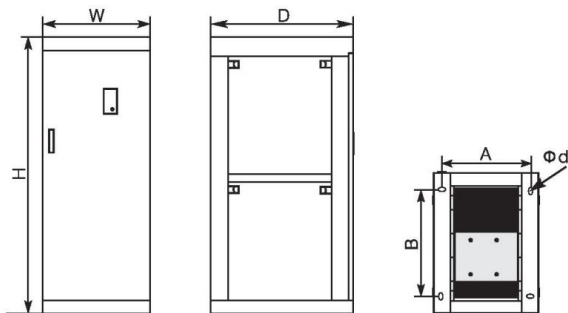
SIZE	Model	Outline Dimension (mm)				Install Dimension (mm)	Remark
		W	H	H1	D	A*B*Φ d	
E	T9400 -500G/560P	550	Wall Mounted: 1120	Wall Mounted: 1180	400	Wall Mounted: (230 + 230)*1150*Φ 13	Metal
			Cabinet: 1540	Cabinet: 1600		Cabinet: 495*260*Φ 14	
	T9400 -560G/630P	760	Wall Mounted: 1330	Wall Mounted: 1400	450	Wall Mounted: (325 + 325)*1370*Φ 13	
			Cabinet: 1780	Cabinet: 1850		Cabinet: 700*310*Φ 14	
	T9400 -630G/710P	760	Wall Mounted: 1330	Wall Mounted: 1400	450	Wall Mounted: (325 + 325)*1370*Φ 13	
			Cabinet: 1780	Cabinet: 1850		Cabinet: 700*310*Φ 14	
	T9400 -710G/800P	700	2200	——	1000	Cabinet: 650*900*Φ 13	
	T9400 -800G/900P						
	T9400 900G/1000P						
	T9400 - 1000G						
	T9400 - 1200G						

SIZE E

1. Wall Mounted Install



2. Cabinet Install



Dimension

Model	Power (kW)	Output Current (A)	Outline Dimension (mm)			Install Dimension (mm)	Remark			
			W	H	D	A*B*Φd	a2			
3PH AC (660V - 690V)±15%										
T9600 - 11G/15P	11	12	277	410	189	262*390*Φ6.5	Wall Mounted			
T9600 - 15G/18.5P	15	16								
T9600 - 18.5G/22P	18.5	20								
T9600 - 22G/30P	22	24								
T9600 - 30G/37P	30	33								
T9600 - 37G/45P	37	41								
T9600 - 45G/55P	45	50	300	595	236	200*573*Φ9				
T9600 - 55G/75P	55	62								
T9600 - 75G/90P	75	85								
T9600 - 90G/110P	90	102								
T9600 - 110G/132P	110	125	380	620	290	250*595*Φ9				
T9600 - 132G/160P	132	150								
T9600 - 160G/185P	160	175		880	358	250*840*Φ13				
T9600 - 185G/200P	185	198								
T9600 - 200G/220P	200	215								
T9600 - 220G/250P	220	245	630	995	350	500*971*Φ11				
T9600 - 250G/280P	250	260								
T9600 - 280G/315P	280	299								
T9600 - 315G/350P	315	330	680	1040	400	520*1016*Φ11				
T9600 - 350G/400P	350	374								
T9600 - 400G/450P	400	410								
T9600 - 450G/500P	450	465	650	1800	920	620*610*Φ17	Cabinet			
T9600 - 500G/560P	500	510								
T9600 - 560G/630P	560	540								
T9600 - 630G/710P	630	570								
T9600 - 710G/800P	710	646	750			620*710*Φ17				
T9600 - 800G/900P	800	728								
T9600 - 900G/1000P	900	819	900			620*860*Φ17				
T9600 - 1000G/1100P	1000	910								
T9600 - 1100G/1250P	1100	1000	1050	2000	930	630*1010*Φ17				
T9600 - 1250G/1400P	1250	1137	-	-	-	-				
T9600 - 1400G/1600P	1400	1273								



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