

SR8000系列 纺织机专用型变频器

SR8000 Series VDF special for textile machinery



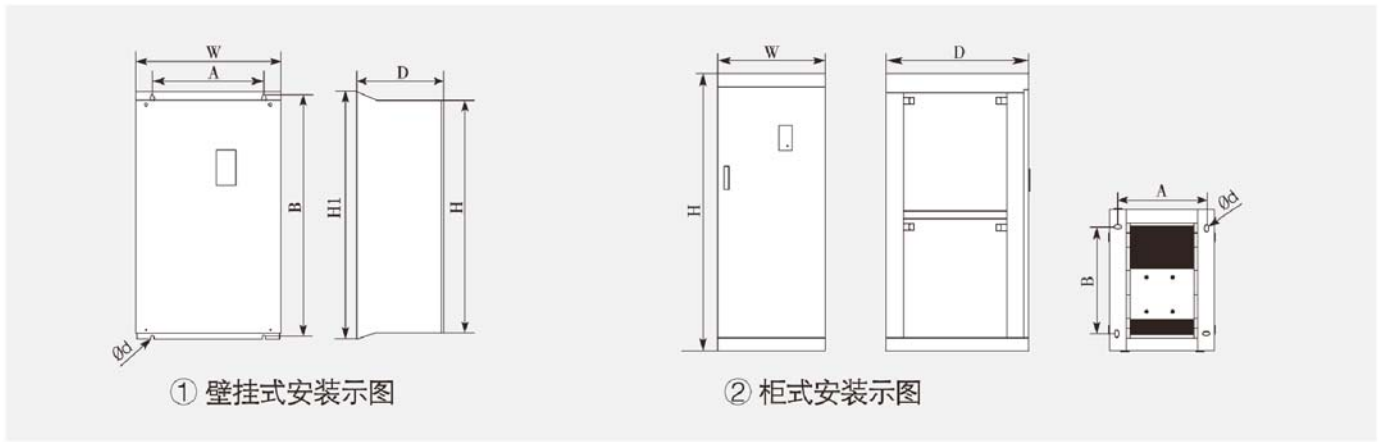
▶ 产品特性参数(Specification)

项目名称 (Item)	SR8000 Series
基本控制功能 Basic features	控制方式(control mode) V/F控制,开环矢量控制(无PG),闭环矢量控制(有PG) V/F control, open loop vector control(without PG), Closed-loop vector control(with PG)
	最高频率(Highest frequency) 矢量控制(vector control):0~320Hz V/F控制(V/F control):0~3200Hz
	载波频率(carrier frequency) 1KHz~16KHz,可根据负载特性自动调整载波频率(according to the load characteristic,automatically adjust the carrier frequency)
	输入频率分辨率(Frequency resolution) 数字设定(digital setting):0.01Hz 模拟设定(simulation is set):最高频率(highest frequency)X0.025%
	启动转矩(Starting torque) G型机:0.5Hz/150%(无PG),0Hz/180%(有PG); P型机:0.5Hz/100% G type:0.5Hz/150%(without PG),0Hz/180%(with PG);P type:0.5Hz/100%
	调速范围(Speed range) 1:100(无PG) without PG 1:1000(有PG)with PG
	稳速精度(Steady speed accuracy) 0.5%(无PG) without PG 0.02%(有PG) with PG
	过载能力(Overload capacity) G 型机:150%额定电流60S(G type:150%Rated current 60S);180%额定电流3S(180%Rated current 3S) P型机:120%额定电流60S(P type:120% Rated current 60S);150%额定电流3S(150% Rated current 3S)
	转矩提升(torque hoisting) 自动转矩提升(Automatic torque boost);手动转矩提升(Manual torque boost)0.1%~30%
	V/F曲线(Curve) 三种方式:直线型;多点型;N次方型V/F曲线(Three ways:linear,multipoint,N type,V/F curve) (1.2次方、1.4次方、1.6次方、1.8次方、2次方)
	V/F分离(Separation) 2种方式:全分离、半分离(Two ways:the separation, half part)
	加减速曲线 (Acceleration /deceleration curve) 直线或S曲线加减速方式,四种加减速时间,加减速时间范围0~6500s (A straight line or S curve deceleration mode, four kinds of deceleration time, deceleration time range 0~6500S)
	直流制动(DC braking) 直流制动频率:0Hz~最大频率;制动时间:0s~100s;制动动作电流值:0%~100% (DC brake frequency:0Hz~maximum frequency;braking time:0S~100S;braking action current value:0%~100%)
	点动控制(JOG control) 点动频率范围(JOG frequency range):0Hz~50Hz,点动加减速时间(JOG dynamic and deceleration time):0s~6500s
特功能 Special function	简易PLC、多段速运行 (Simple PLC, Multi-velocity run) 通过内置PLC或控制端子实现最多16段速运行 (through the built-in PLC or control terminal at most 16 preset speed operation)
	内置PID(built-in PID) 可方便实现过程控制闭环控制系统(easy to realize process control with PID fuction)
	自动电压调整AVR (adjust the AVR automatic voltage) 当电网电压变化时,能自动保持输出电压恒定 (when grid voltage change,can automatically maintain a constant output voltage)
	过压过流失速控制 Overload/overcurrent/stall control 对运行期间电流电压自动限制,防止频繁过流过压跳闸 (current automatic voltage limit automatically during the operation,to prevent frequent trip through the pressure)
	快速限流功能(rapid current-limiting) 最大限度减小过流故障,保护变频器正常运行 (Current-limiting to reduce the over current fault,protect the normal operation of the inverter)
	转矩限定与控制 (torque limit and control) 对运行期间转矩自动限制,防止频繁过流跳闸,闭环矢量模式可实现转矩控制characteristics,the torque limit automatically during running,prevent over-current trip frequently,the torque control closed-loop vector model is achieved
	支持多种PG卡Support for multiple PG card 支持旋转变压器,差分,开路集电极,UWV,正余弦等PG卡Support the rotating transformer,differential,open collector,is cosine PG card,etc
	瞬时不停(Instantaneous stop constantly) 瞬时停电时通过负载回馈能量补偿电压的降低,维持变频器短时间内继续运行(instantaneous power failure through load feedback energy compensation voltage is reduced,maintain frequency converter in a short period of time to continue running)
	快速限流(Aapid current limiting) 避免变频器频繁的出现过流故障(avoid the over current of VFD frequent flow of failure)
	优越的性能The superior performance 以出色的性能的电流量控制技术实现异步电机和同步电机控制; With excellent performance of current vector control technology to realize asynchronous motor and synchronous motor control
运行 (operation)	定时控制(Timing control) 定时控制功能:设定时间范围0min~6500min(timing control function,the setting time range 0min~6500min)
	通讯方式支持(Communication support) 支持(Support)Modbus(标配 standard),Profibus-DP(选配 optional),CAN(选配 optional);
	保护功能(Protection function) 上电电机短路检测、输出缺相保护、过流保护、过压保护、欠压保护、过热保护、过载保护等 Electric motor on short circuit detection,output phase protection,over current protection,overvoltage protection, undervoltage protection,overheating protection, over lose load protection,etc;
	输入端子(input terminal line) 8个数字输入端子,其中1个支持最高100KHz的高速脉冲输入;2个模拟量输入端子,1个仅支持0~10V电压输入,1个支持0~10V电压输入或4~20mA电流输入; 8 digital input terminals,one support up to 100KHz high-speed pulse input;2 analog inputs,1 support only 0~10V input voltage;1 support 0~10V input vlotage or 4~20mA input
	频率源(frequency source) 多种频率源:数字给定、模拟电压给定、模拟电流给定、脉冲给定、串行口给定,可通过多种方式切换(A variety of frequency source: digital given,analog voltage,given analog current,pulse given,RS485 for a setting, can switch through a variety of ways)
辅助频率源(auxiliary frequency source) 10种辅助频率源,可灵活实现辅助频率微调,频率合成 (Ten kinds of auxiliary frequency source:flexible rdalization of auxiliary frequency trimming/frequency synthesis)	
运行指令通道(RUN command channel) 键盘给定、控制端子给定、串行通讯口给定,可通过多种方式切换 (Keyboard is given,the control terminal,given serial communication Port,given can switch through a variety of ways)	
输出端子(output terminal) 1个高速脉冲输出端子(可选为开路集电极:支持0~100KHz的方波信号输出);1个数字输出端子;2个继电器输出端子; 2个模拟输出端子:每路都支持0~20mA电流输出或0~10V电压输出; one high-speed pulse output terminal(optional for open collector: support0~100KHz square wave signal output);one digital output terminals; Two relay output terminals;Two analog output terminals:every road support 0~20mA output voltage or output current 0~10V	

项目名称(Item)		SR Series
键盘操作 (Keyboard)	LED显示(display)	显示参数(Display parameters)
	按键锁定和功能选择 (Key lock and selection function)	实现按键的部分或全部锁定,定义部分按键的作用范围,以防止误操作 (Implement part or all of the key lock,define the scope of some buttons,in order to prevent wrong operation)
	可选配件 Optional accessories	旋转变压器PG卡,差分输入PG卡,UUV差分输入PG卡,OC输入PG卡; PG card,rotating transformer differential input PGcard,UUVdifferential input PG card,OC PG card input
环境 (environment)	使用场所(Environment)	室内,不受阳光直射,无尘埃,腐蚀性气体,可燃性气体,油雾,水蒸气,滴水或盐分等 (Indoor, no direct sunlight, no dust, without corrosive gas, combustible gas, oil mist, water vapor, water, or salt, etc)
	海拔高度(Altitude)	低于1000m(高于一千米需降档使用) Below 1000m(Change gear down when higher than 1000m)
	环境温度(Ambient temperature)	-10°C~+40°C(环境温度在40°C~50°C,请降档使用)/10°C~+40°C(change gear down when 40°C to 50°C)
	湿度(Humidity)	小于95%RH,无水珠凝结(Less than 95% RH, no water condensation)
	振动(Vibration)	小于5.9m/S ² (0.6g)-Less than 5.9 m/S ² (0.6 g)
	存储温度(storage temperature)	-20°C~+60°C

► 型号及外观尺寸(Mode/dimension)

Unit:mm



① 壁挂式安装示意图

② 柜式安装示意图

变频器型号(Model)	功率 Power(KW)	输出电流 current(A)	外形尺寸(Size)(mm)				安装尺寸 mounting size(mm) A×B×Φd	备注 (Notes)
			W(宽)	H(高)	H1(高)	D(厚)		
1PH AC220V 15% 50/60Hz								
SR200-0R4G	0.4	2.4	125	170	—	140	117*160*Φ5	壁挂式 (wall-mounted)
SR200-0R7G	0.75	4.5						
SR200-1R5G	1.5	7						
SR200-2R2G	2.2	10						
SR200-3R7G	3.7	16	120	225	—	143	105*208*Φ5	
3PH AC380V 15% 50/60Hz								
SR8400-0R4G	0.4	1.2	125	170	—	140	117*160*Φ5	壁挂式 (wall-mounted)
SR8400-0R7G	0.75	2.5						
SR8400-1R5G	1.5	3.7						
SR8400-2R2G	2.2	5						
SR8400-3R7G/5R5P	3.7/5.5	9/13	120	225	—	143	105*208*Φ5	
SR8400-5R5G/7R5G	5.5/7.5	13/17	185	260	—	170	168*248*Φ6.5	
SR8400-7R5G/11P	7.5/11	17/25						
SR8400-11G/15P	11/15	25/32	210	330	—	190	195*310*Φ6	
SR8400-15G/18.5P	15/18.5	32/37						
SR8400-18.5G/22P	18.5/22	37/45	277	410	—	189	262*390*Φ5	
SR8400-22G/30P	22/30	45/60						
SR8400-30G/37P	30/37	60/75						
SR8400-37G/45P	37/45	75/90	300	430	455	212	200*435*Φ5	
SR8400-45G	45	90	390	550	—	223	300*520*Φ10	穿墙式 Through the wall
SR8400-55G	55	110						

*注明:具体尺寸请咨询厂家,如有更改恕不另行通知;

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Unit:mm

变频器型号(Model)	功率 Power(KW)	输出电流 current(A)	外形尺寸(Size)(mm)				安装尺寸 mounting size(mm) AxBXΦd	备注 (Notes)
			W(宽)	H(高)	H1(高)	D(厚)		
3PH AC380V 15% 50/60Hz								
SR8400-45G/55P	45/55	90/110	300	535	560	236	200*538*Φ9	壁挂式 (wall-mounted)
SR8400-55G	55	110						
SR8400-75P	75	150						
SR8400-75G/90P	75/90	150/176	380	625	650	252	250*625*Φ9	
SR8400-90G/110P	90/110	176/210						
SR8400-110G/132P	110/132	210/253						
SR8400-132G/160P	132/160	253/300	420	730(壁) 1130(柜)	790(壁) 1165(柜)	330	300*765*Φ11(壁) 250*350*Φ12(柜)	壁挂式或柜式 (wall or cabinet mounted)
SR8400-160G/185P	160/185	300/340						
SR8400-185G/200P	185/200	340/380	530	800(壁) 1300(柜)	860(壁) 1335(柜)	335	400*835*Φ13(壁) 250*450*Φ12(柜)	
SR8400-200G/220P	200/220	380/420						
SR8400-220G/250P	220/250	420/470						
SR8400-250G/280P	250/280	470/520	700	880(壁) 1380(柜)	940(壁) 1415(柜)	350	600*915*Φ1(壁) 250*620*Φ12(柜)	
SR8400-280G/315P	280/315	520/600						
SR8400-315G/350P	315/350	600/640						
SR8400-350G/400P	350/400	640/690	600	1550	—	800	500*600*Φ13	
SR8400-400G/450P	400/450	690/790						
SR8400-450G/500P	450/500	790/860						
SR8400-500G/560P	500/560	860/950	650	1550	—	800	500*600*Φ13	
SR8400-560G/630P	560/630	950/1100						
SR8400-630G/710P	630/710	1100/1280						
SR8400-710G/800P	710/800	1280/1380	700	2200	—	1000	600*800*Φ13	
SR8400-800G/900P	800/900	1380/1640						
SR8400-900G/1000P	900/1000	1640/1720						
SR8400-1000G	1000	1720						

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			W(宽)	H(高)	D(厚)		
3PH AC660V~690V ±15%							
SR8600-11G/15P	11	16	410	277	189	390*262*Φ6.5	壁挂式 (wall-mounted)
SR8600-15G/18R5P	15	20					
SR8600-18R5G/22P	18.5	25					
SR8600-22G/30P	22	28					
SR8600-30G/37P	30	35					
SR8600-37G/45P	37	45					
SR8600-45G/55P	45	52	595	300	236	573*200*Φ9	
SR8600-55G/75P	55	63					
SR8600-75G/90P	75	86					
SR8600-90G/110P	90	98	620	380	290	595*250*Φ9	
SR8600-110G/132P	110	121					
SR8600-132G/160P	132	150					

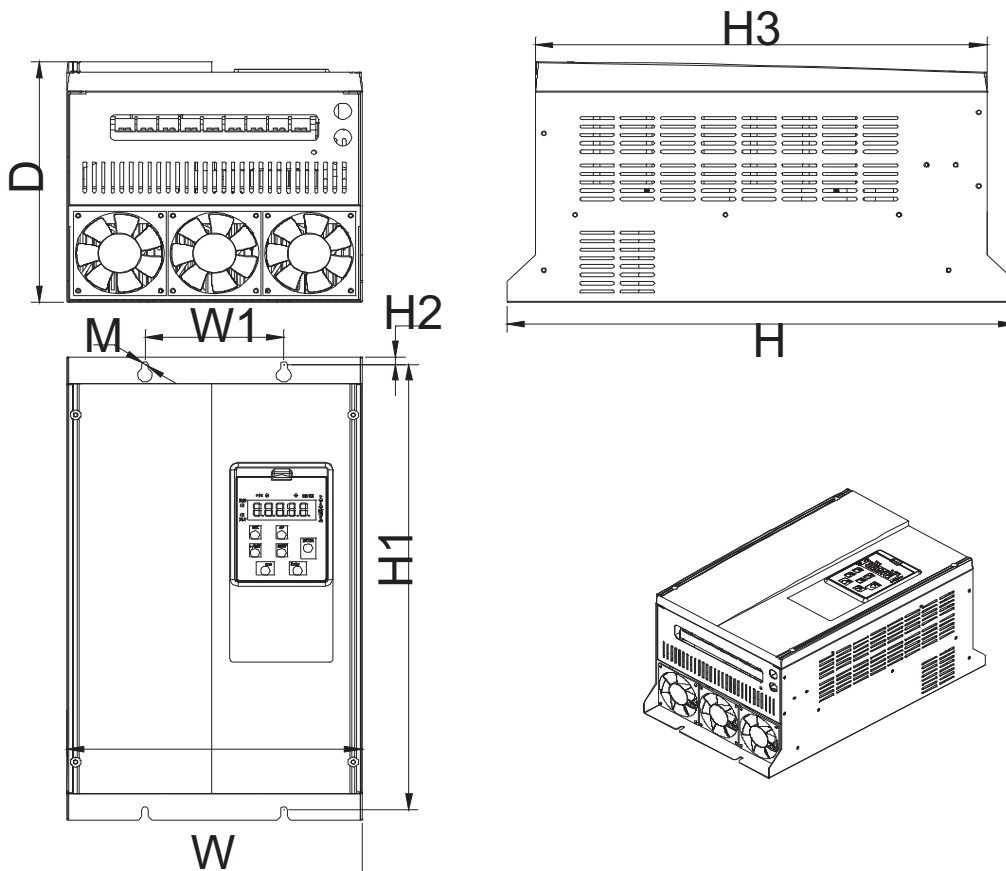
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Unit:mm

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			W(宽)	H(高)	D(厚)		
3PH AC660V~690V 15%							
SR8600-160G/185P	160	175	880	380	358	840*250*Φ13	壁挂式 (wall-mounted)
SR8600-185G/200P	185	198					
SR8600-200G/220P	200	218					
SR8600-220G/250P	220	240					
SR8600-250G/280P	250	270					
SR8600-280G/315P	280	320	995	630	350	971*500*Φ11	壁挂式 (wall-mounted)
SR8600-315G/350P	315	350					
SR8600-350G/400P	350	380					
SR8600-400G/450P	400	430	1040(壁) 1515(柜)	680	400	1016*520*Φ11(壁) 550*300*Φ13(柜)	壁挂式或柜式 (wall or cabinet-mounted)
SR8600-450G/500P	450	480					
SR8600-500G/560P	500	540	1800	650	920	550*800*Φ17	柜式 (cabinet-mounted)
SR8600-560G/630P	560	600					
SR8600-630G/710P	630	680					
SR8600-710G/800P	710	750	1800	750	920	650*800*Φ17	柜式 (cabinet-mounted)
SR8600-800G/900P	800	860					
SR8600-900G/1000P	900	950	1800	900	920	800*800*Φ17	柜式 (cabinet-mounted)
SR8600-1000G	1000	1080					

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			H	W	D	W1	H1	H2	H3	M	
3PH AC380V 15% 50/60Hz(3PH AC220V 15% 50/60Hz)											
SR8400-022G-T	22	45	440	255	228	120	423	7	390	M5	壁挂式 Wall-mounted
SR8400-045G-T	45	90	570	300	288	150	553	7	510	M6	

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▶ SR8000系列变频器基本配线图(VFD Sr8000 Series Connection)

