

SA710

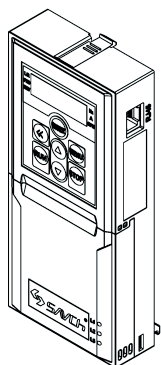
模组化高性能矢量变频器

Modularity High Performance Vector Inverter

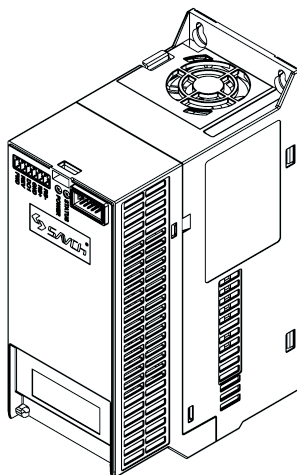


一分钟了解模块化变频器/One minute to understand the modularity

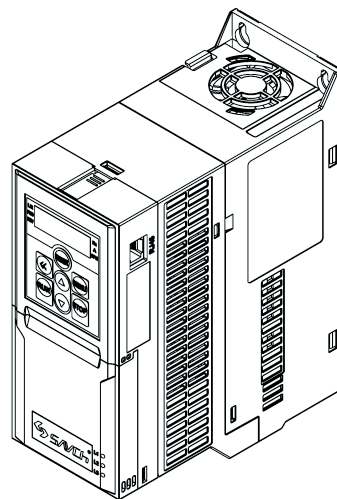
SA710 模块化高性能矢量型变频器，提供模块化解决方案：模块化设计包含功率单元(PU)，控制单元(CU)，外引键盘和选项卡。
SA710-Modularity high performance Vector Control platform includes Power unit (PU), Control Unit (CU), External keypads and option cards.



CU (Control Unit)
端子功能，选项卡，特殊应用软件
IO Functions, Option Cards,
Specified app functions Software



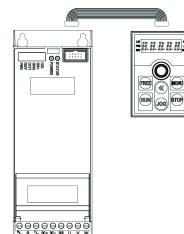
PU (Power Unit)
电机控制，通用功能
Motor Control, General App Functions



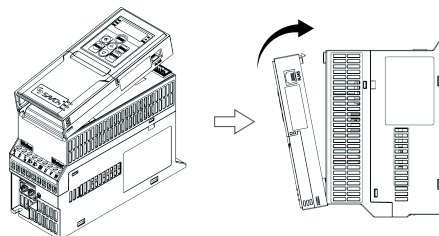
SA710 PUCU
SA710 变频器
SA710 Inverter

SA710变频器组合类型/Combination type of SA710

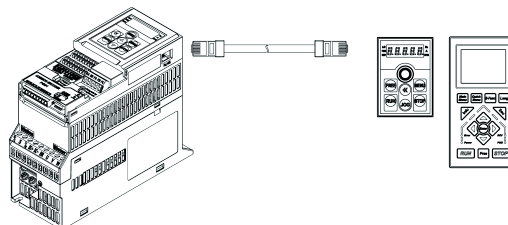
PU00/PU01独立工作
PU00/PU01 works alone



功率单元PU和控制单元CU组合
Combination of power unit (PU)
and control unit (CU)



功率单元PU+控制单元CU+选项卡/外引键盘组合
Power unit PU+ Control unit CU+.Option
card/External keyboard combination



SA710变频器选型模块/SA710 Inverter modules

● 功率单元(PU)选项/Selection of Power units (PU)

功率单元(PU)选项/ Selection of Power unit (PU)	型号/Model	功率/Power Range	描述/Description
	PU00	0.37~630kW	No DI/DO/RS485
	PU01	0.37~7.5KW	2DI/1DO/1RS485
		11~22kW	3DI/1AI/1Relay/1RS485
	PU0F	0.37~7.5kW	2DI/1AI/10V

● 控制单元(CU)选项/Selection of Control units (CU)

控制单元(CU)选项/ Selection of control Unit (cU)	型号/Model	功率/Power Range	描述/Description
	CU00/CU0H	通用于所有功率的功率单元/ Can be used for all power range PU	6DI+1DO+2AI+1AO+2Relay+RS485 内置LED键盘+1选项卡/ LED Keypad,1option card
	CU02	通用于所有功率的功率单元/ Can be used for all power range PU	5DI+1DO+2AI+2AO+2Relay+RS485 内置LED键盘, 1选项卡/ LED Keypad,1option cards
	CU03	通用于所有功率的功率单元/ Can be used for all power range PU	8DI+4DO+4AI+2AO+2RS485 可拔插LED键盘, 2选项卡, 支持客户自己开发软件/ LED Keypad,2 option cards,support customer modification
	CU04	通用于所有功率的功率单元/ Can be used for all power range PU	6DI+2DO+2AI+1AO+2Relay+2RS485 可拔插LED键盘, 2选项卡/ LED Keypad,2 option cards

● 选项卡的选项/Selection of option cards

选项卡的选项/ Selection of option cards	选项卡/Option cards	描述/Description
	PG01	共模增量式编码器卡/Common mode incremental encoder
	PG02	差分增量式编码器卡/Differential mode incremental encoder
	PG03	旋转变压器式编码器卡/Resolver for speed/position sense
	IO01	IO端子扩展卡/IO Extension Card
	DP01	Profibus-DP 通讯总卡/Profibus-DP Card
	PN01	ProfiNet 通讯总线/ProfiNet Card
	MT01	Modbus TCP 通讯总线/ Modbus TCP Card
	ET01	EtherCAT 通讯总线/EtherCAT Card

- PU-CU可分离/PU-CU separable
- 风扇可拆卸/Removable Fan

CU option card APP SKD

- 高控制性能/High control performance



SA710 应用领域/SA710 Applications



电线电缆
Wire and cable



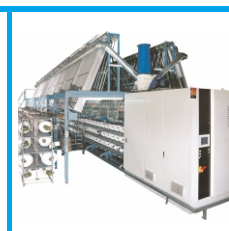
柔性印刷
Flexible printing



熨烫折叠
Ironing and
folding



纺织机械
Textile
machinery



起重机械
Hoisting
machinery



冷镦机械
Cold heading
machine



制砖机械
Brick-making
machinery



石材加工
Stone
processing



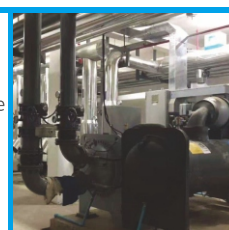
工业风扇
Industrial fan

快速门
Fast door



工业洗衣机
Industrial
washing machine

中央空调
Central Air-
Conditioning



空压机
Air compressor
数控机床
Digital control
machine tool



光伏扬水
Photovoltaic
Pump
食品饮料
Food and
beverage



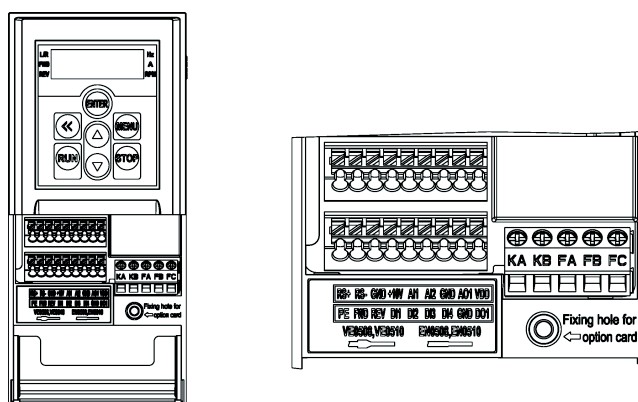
SA710技术规格/SA710Technical specification

• SA710 功率单元 PU00/PU01技术规格

Technical specification of SA710 power unit PU00/PU01

项目/Item			规格/Specification
输入/ Line in	电压/Voltage		单相200~240V -15%~+10% / Single Phase 200~240V -15%~+10%; 三相380~480V -15%~+10% / 3 Phase 380~480V -15%~+10%;
	频率/Frequency		50/60Hz±5%
	最大不平衡度/Unbalance		3%
输出/ Out put	输出电压/Voltage		三相0~100% 输入电压 / 3 Phase 0~100% Line in voltage
	输出频率/Frequency		0~590Hz
主要控制规格/ Main Control	控制模式/Control algorithm		V/F, 矢量控制; V/F control, Vector Control
	支持电机类型/Motor Type		异步电机, 同步电机 / Induction Motor, PM Motor
	起动转矩/Start Torque		0.5Hz 150%;
	过载能力/Overload		重载 150% 额定输出电流 (60s); 180% 额定输出电流 (3s)/ Heavy load type: 150% 60s, 180% 3s 轻载 120% 额定输出电流 (60s); 150% 额定输出电流 (3s)/ Light load type: 120% 60s, 150% 3s
	载波频率/Switching Frequency		0.37~22kW: 2k~16kHz; 30~90kW: 2~8k; 110~160kW: 2~4k; >=185kW: 2~3k
	速度设定解析度/Speed resolution		数字: 0.001Hz, 模拟: 最大操作频率的0.5‰/Digital: 0.001Hz; Analogue: 0.5‰ of the maximal setup
	开环转速控制精度/Speed accuracy at Speed Open Loop		±0.5%额定/±0.5% of Nominal speed
	控制命令来源/Source of Control Command		操作键盘, 数字端子, 通讯控制字/Keypad, DI inputs, Bus communication
	设定频率来源/Set frequency source		键盘, 模拟量, 脉冲, 通讯给定/Keypad, Analogue inputs, Pulse inputs, Bus communication
加减速时间/Acc/Dec		4组加减速时间0.05-6000.00s/4 sets of acceleration/deceleration time, range: 0.05-6000.00s	
基本功能/ Basic Functions	速度开环, 速度闭环, 过程闭环控制, 转矩开环, 转矩闭环, 电机自学习、自动负载补偿、自动稳压功能、加减速曲线控制、直流制动、交流制动、速度限制, 转矩限制, 电流限制, 飞车启动、瞬停不停、自动复位等。(注意:如果您需要速度闭环或者转矩闭环控制, 您必须安装控制单元和PG卡)/ Speed open loop, speed close loop, Process close loop, torque control (with/without speed sensor, Motor auto tuning, Load compensation, DC compensation, DC brake/AC brake, speed limit, current/torque limit, fly start, KEB etc.(Note: Speed close loop or torque control with speed sensor will active only when a control unit and PG card are installed)		
应用功能/ Application Functions	端控多段速、可编程多段速, S ramp, 机械制动、计数器、过程PID, 点动控制等。/ Multistage speed control by terminals or PLC function, S ramp, Mechanic brake, counter, ProcessPID, Jog etc.		
保护功能/ Protection Functions	电源缺相保护, 欠压保护, 过压保护, 过流保护, 过载保护, 输出缺相保护, 输出短路保护, 输出接地保护, 变频器过热保护, 电机过热保护、信号断线保护等。/ Short circuit, Ground fault, line phase loss, under voltage, over voltage, over current, overload, over temperature, motor thermal protection, motor phase loss, control wire broken etc.		
控制端子/ Control Terminals	0.37-7.5kW	DI (PU01)	2路数字量输入端子, NPN或电压输入; / 2 Dis for NPN and voltage input
		DO (PU01)	1路数字量输出端子, 40mA; / 1 DO of 40mA
		RS485 (PU01)	1组RS485/Modbus, 最大波特率38400bit/s; /1 RS485 Modbus, maximum baud rate 38400bit/s
	11-22kW	DI (PU01)	3路数字量输入端子, NPN或电压输入; / 3 Dis for NPN and voltage input
		AI (PU01)	1路模拟量输入端子, 支持电压和电流输入; / 1AI of Current and Voltage input
		10V (PU01)	1路10V电压输出, 10mA; / 10V of 10mA
		RL (PU01)	1路继电器输出, 单刀单掷, 3A/250V; / 1RL for SPST with 3A/250V
	11-22kW	RS485 (PU01)	1组RS485/Modbus, 最大波特率38400bit/s; / 1 RS485 Modbus, maximum baud rate 38400bit/s
功能模块连接端子/Module connection terminal		用于连接控制单元或外引键盘 / Used to connect the control unit or external keyboard	
环境/ Operation Environment	防护等级/Protection Level		IP20
	工作温度/Operation Ambient Temperature		运行范围-10℃ ~ 60℃ / Operating range: -10℃ ~ 60℃ 按重载机型使用, 50℃可额定负载运行, 50℃以上需降容使用; / As heavy load type: Nominal current to 50℃, derate from 50℃ 按轻载机型使用, 40℃可额定负载运行, 40℃以上需降容使用; / As light load type: Nominal current to 40℃, derate from 40℃
	工作湿度/Operation Ambient Humidity		5%~85% (95%时不结露) ; / 5%~85% (No condensing at 95%)
	振动/Vibration		<=90kW:1.14g; >=110kW: 0.7g
	最大海拔/Altitude		1000m, 1000m以上需降容使用; /1000m, derate from 1000m
	电机电缆长度/Motor cable length		屏蔽电缆: 50米; 非屏蔽电缆: 100米; / Shielded Cable: 50m; Un-shielded cable:100m
其他/Others	制动单元/Brake Chopper		22kW及以下内置 / Built in as default up to 22kW

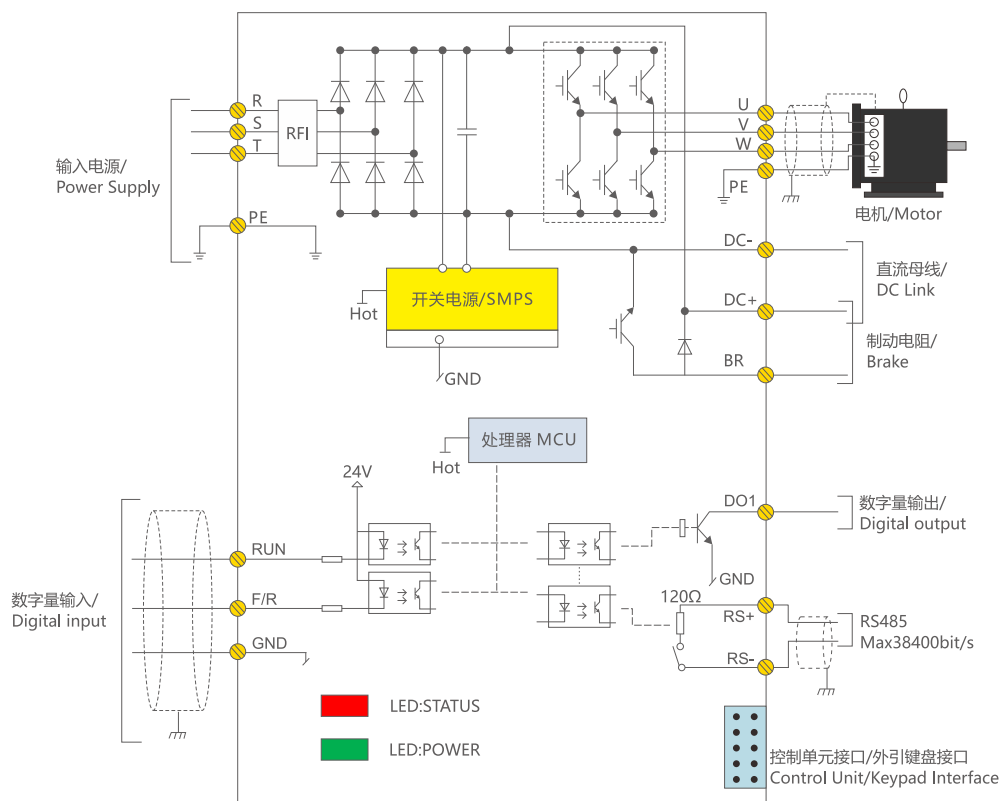
- SA710 控制单元CU00 控制端子/SA710 Control unit CU00 control terminal



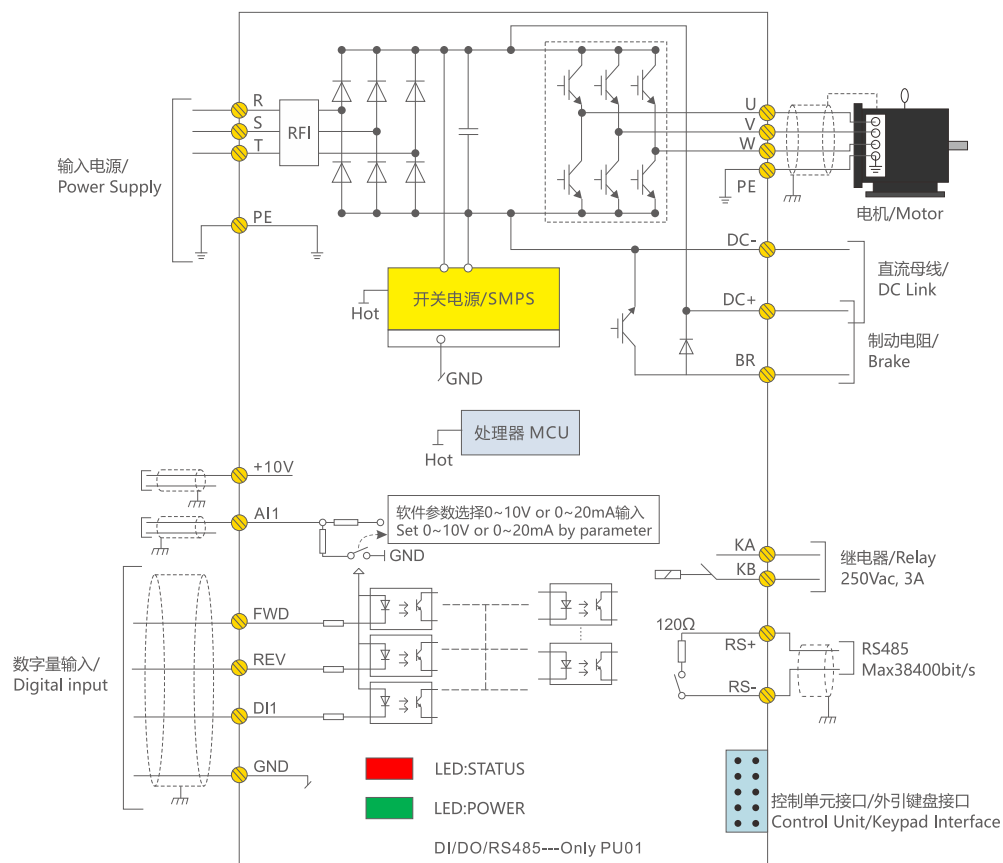
端子名/Terminal name	说明/Description	规格/Specification
FWD,REV,DI1,DI2, DI3, DI4	数字量输入端子/ Digital inputs	输入类型: NPN 模式和PNP 模式 / Input type: NPN; PNP; 输入电压 / Input Voltage: 0~30V; 输入阻抗 / Input Impedance: 3.6k Ω ; D4可配置为脉冲输入, 脉冲输入范围: 0.00~100.00kHz; / D4can be configured for pulse input,pulse input range: 0.00~100.00kHz
DI4	脉冲输入端子/ Pulse Input	频率范围 / Frequency Range: 0.00~100.00kHz; 电源范围 / Power Supply Range: 24V $\pm$ 20%; 占空比范围 / Duty Cycle Range: 40%~60%;
DO1	数字量输出端子/ Digital Output	OC 门输出; / Output type: Open Collector; 输出电流范围 / Output Current: 0~40mA; 输出电压范围 / Output Voltage: 0~30V; 作为脉冲输出时 / Can be configured as pulse output: 负载能力: 阻性负载 / Load Capacity: Resistive>1k Ω , 容性负载 / capacitive <10nf; 脉冲频率范围 / Frequency Range: 0.00~100.00kHz; 占空比范围 / Duty Cycle Range: 40%~60%;
RS+, RS-	RS485通讯/ RS485 Communication	最大通讯速率 / Max Baud Rate : 38400bit/s; 终端电阻可通过参数配置,默认为断开状态 / Configurable termination resistor, open in default;
FA-FB-FC (1) KA-KB (2)	继电器输出/ Relay Output	阻性负载 / Resistive Load: 250VAC 3A/30VDC 3A; 感性负载 / Inductive Load: 250VAC 0.2A/24VDC 0.1A (cos ϕ =0.4);
AI1, AI2	模拟量数字量输入/ Analogue Inputs	可通过参数选择为模拟量电压输入、模拟量电流输入或者数字量输入: 1. 作为模拟量电压输入: 输入阻抗 10k Ω ; 输入电压范围: 0~10V; 2. 作为模拟量电流输入: 输入阻抗 $\leq$ 500 Ω ; 输入电流范围: 0~20mA; 3. 作为数字量输入: 输入类型: NPN PNP; 输入阻抗: 10K Ω ; 电压范围: 0-30V Configurable as analogue voltage inputs, analogue current inputs as well as digital inputs. 1. As Analogue Voltage Inputs: Input Impedance: 10k Ω ;Input Voltage Range: 0~10V; 2. As Analogue Current Inputs: Input Impedance: $\leq$ 500 Ω ;Input Current Range: 0~20mA; 3. As Digital Inputs: Input Type: NPN PNP; Input Impedance: 10k Ω ; Input Voltage Range: 0-30V;
AO1	模拟量输出/ Analogue Output	可通过参数配置0~10V电压输出或者0~20mA电流输出, 输出范围: 0~20mA or 0~10V; / Configurable as analogue voltage output or current output, Output Range: 0~10V or 0~20mA; 负载能力/Load Capacity: 电压输出时: 负载阻抗大于500 Ω ; / As Voltage Output: Impedance > 500 Ω ; 电流输出时: 负载阻抗小于500 Ω ; / As Current Output: Impedance < 500 Ω ;
VDD	24V 电源/ Power Supply	最大输出电 / Max: 200mA
+10V	10V电源/ Power Supply	最大负载 / Max: 30mA
GND	信号地/ Signal Ground	
PE	大地/Safety Ground	
扩展卡接口/Connector for Option Card		用于外接扩展卡, 位于控制单元底部/ Support one option card of different types, at the bottom of the Control Unit
外引键盘接口/Connect for External Keypad		用于外引控制键盘, 位于控制单元右侧上部/ RJ45 for external keypad, at the top of right side of the Control Unit

功率单元电气接线图/PU Electrical Diagram

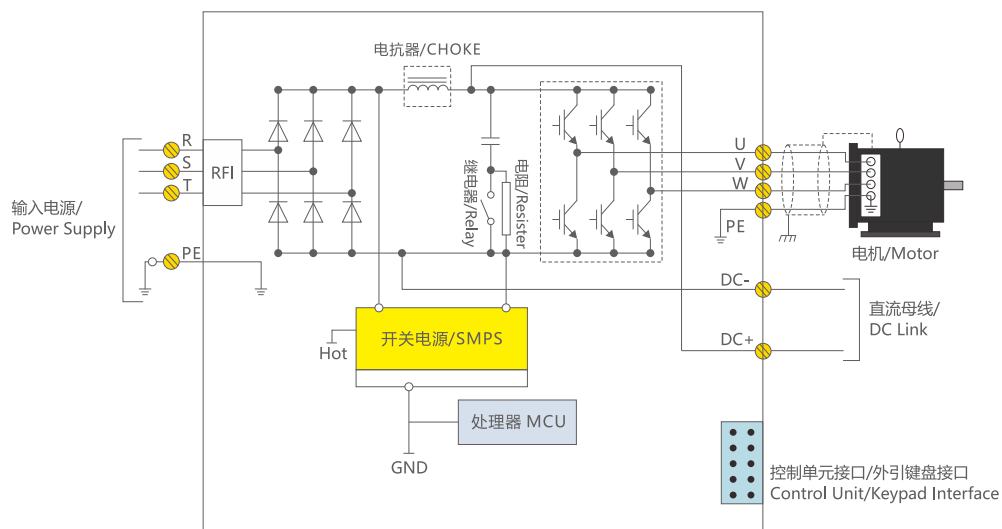
• 0.37-7.5kW



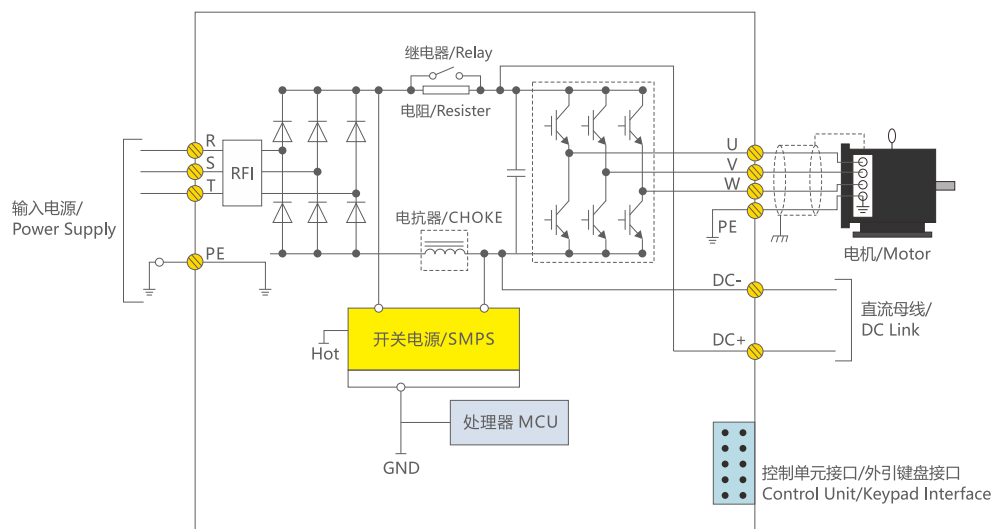
• 11-22kW

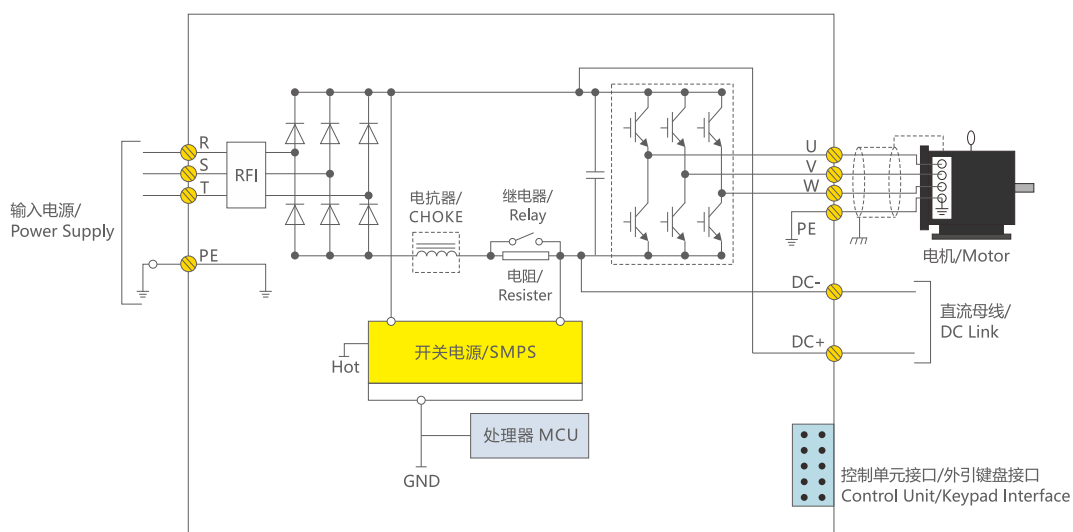


• 30-90kW

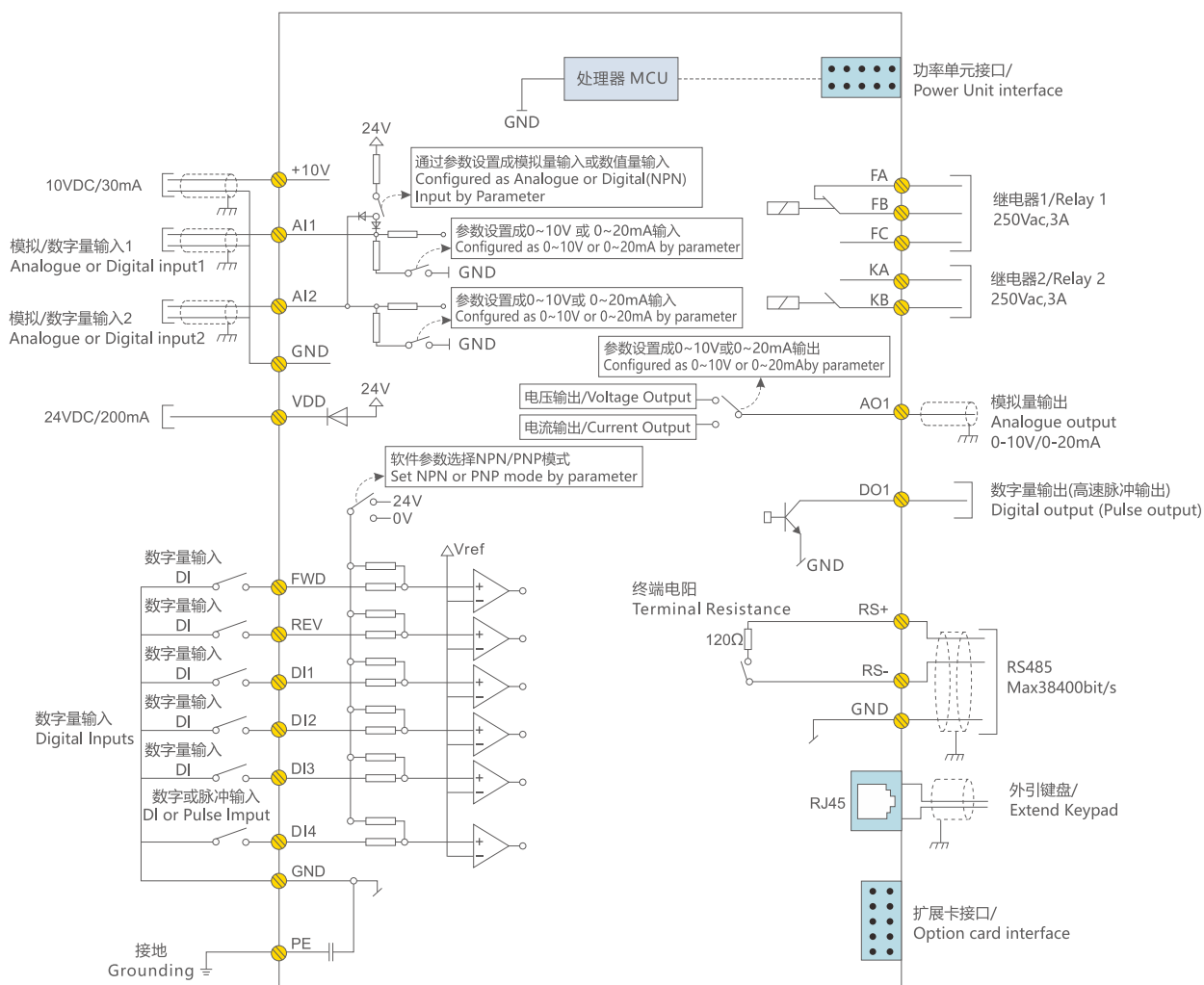


• 110-450kW





控制单元电气接线示意图/CU00 Electrical Diagram



SA710 产品型号规格/Product model specification

SA710 – 4T 5.5G / 7.5P – PU00 CU00

1 2 3 4 5 6

序号/No.	型号/Model	说明/Description
1	SA710	代表变频器SA710系列/Represents the frequency converter SA710 series
2	4T	代表输入电压等级: 4T~三相380V; 2T~三相220V或单相220V/ Representstive input voltage level: 4T~three-phase 380V; 2T~ three-phase 220V or single-phase 220V
3	5.5G	G代表重载功率等级, 5.5代表5.5kW/ G stands for heavy load power level, 5.5 stands for 5.5kW
4	7.5P	P代表轻载功率等级, 7.5代表7.5kW/ P stands for light load power level, 7.5stands for 7.5kW
5	PU00	代表功率单元的型号/Represents the model of the power unit
6	CU00	代表控制单元的型号/Represents the model of the control unit

功率单元主要规格型号/Main specifications and models of power units

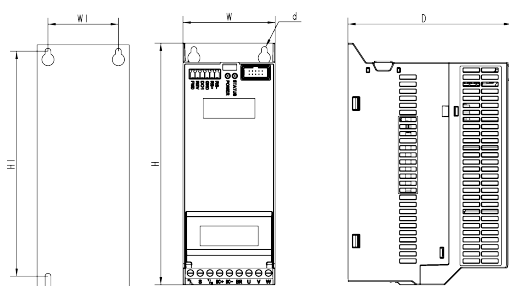
型号/Model	功率/Power (kW)	电压/Voltage (V)	重载/Heavy Load		轻载/Light Load		通风量/Air (m³/h)
			输入/Input (A)	输出/Output (A)	输入/Input (A)	输出/Output (A)	
SA710-2T0.37G-PU00	0.37	1×200-240	6.5	2.5	—	—	17.2
SA710-2T0.75G-PU00	0.75	1×200-240	9.3	4.5	—	—	17.2
SA710-2T1.5G-PU00	1.5	1×200-240	15.5	7.5	—	—	17.2
SA710-2T2.2G-PU00	2.2	1×200-240	23	9.6	—	—	45.5
SA710-2T4.0G-PU00	4.0	1×200-240	33	16	—	—	90
SA710-2T5.5G-PU00	5.5	3×200-240	35.9	25			124
SA710-2T7.5G-PU00	7.5	3×200-240	43.4	32			170
SA710-2T11G-PU00	11	3×200-240	61	45			272
SA710-2T15G-PU00	15	3×200-240	82.5	61			303
SA710-2T18.5G-PU00	18.5	3×200-240	72	75			374
SA710-2T22G-PU00	22	3×200-240	88	91			408
SA710-4T0.75G/1.5P-PU00	0.75/1.5	3×380-440	3.7	2.3	5.8	3.7	17.2
		3×440-480	3.2	2.1	5.0	3.4	
SA710-4T1.5G/2.2P-PU00	1.5/2.2	3×380-440	6	3.8	8.5	5.3	17.2
		3×440-480	5.2	3.5	7.3	4.8	
SA710-4T2.2G/4.0P-PU00	2.2/4.0	3×380-440	8.5	5.3	14.0	8.5	17.2
		3×440-480	7.3	4.8	12.4	8.2	
SA710-4T4.0G/5.5P-PU00	4.0/5.5	3×380-440	15	9.6	18.6	11.2	45.5
		3×440-480	12.9	8.8	18.1	11.0	
SA710-4T5.5G/7.5P-PU00	5.5/7.5	3×380-440	20.8	13.0	24.7	15.5	90
		3×440-480	19.1	11.8	21.4	14.2	
SA710-4T7.5G/11P-PU00	7.5/11	3×380-440	27.1	17.0	33.1	22.0	90
		3×440-480	23.4	15.5	30.2	21.0	
SA710-4T11G/15P-PU00	11/15	3×380-440	35.9	25.0	42.5	31.0	124
		3×440-480	31.4	22.7	39.8	28.5	
SA710-4T15G/18.5P-PU00	15/18.5	3×380-440	43.4	32.0	50.2	36.0	170
		3×440-480	40.2	29.1	45.8	34.0	
SA710-4T18.5G/22P-PU00	18.5/22	3×380-440	51.5	38.0	58.5	42.5	230
		3×440-480	46.1	34.5	54.0	40.0	
SA710-4T22G/30P-PU00	22/30	3×380-440	61	45.0	79.0	56.0	272
		3×440-480	54.5	40.9	73.0	51.0	
SA710-4T30G/37P-PU00	30/37	3×380-440	82.5	61.0	98.0	71.0	303
		3×440-480	74	52.0	90.0	65.0	
SA710-4T37G/45P-PU00	37/45	3×380-440	72	75.0	87.0	90.0	374
		3×440-480	65	68.0	79.0	80.0	

型号/Model	功率/Power (kW)	电压/Voltage (V)	重载/Heavy Load		轻载/Light Load		通风量/Air (m³/h)
			输入/Input (A)	输出/Output (A)	输入/Input (A)	输出/Output (A)	
SA710-4T45G/55P-PU00	45/55	3×380-440	88	91.0	102.0	104	408
		3×440-480	80	82.0	99.0	101	
SA710-4T55G/75P-PU00	55/75	3×380-440	110	112	142	145	476
		3×440-480	100	102	132	136	
SA710-4T75G/90P-PU00	75/90	3×380-440	148	150	170	175	595
		3×440-480	135	140	150	155	
SA710-4T90G/110P-PU00	90/110	3×380-440	175	180	192	202	646
		3×440-480	155	160	172	179	
SA710-4T110G/132P-PU00	110/132	3×380-440	206	215	245	255	714
		3×440-480	183	190	225	235	
SA710-4T132G/160P-PU00	132/160	3×380-440	251	260	290	305	850
		3×440-480	231	240	285	295	
SA710-4T160G/185P-PU00	160/185	3×380-440	304	315	334	350	1029
		3×440-480	291	302	307	322	
SA710-4T185G/200P-PU00	185/200	3×380-440	350	365	370	385	1190
		3×440-480	320	335	336	352	
SA710-4T200G/220P-PU00	200/220	3×380-440	381	395	409	425	1292
		3×440-480	348	361	375	390	
SA710-4T220G/250P-PU00	220/250	3×380-440	420	435	453	461	1411
		3×440-480	383	398	419	425	
SA710-4T250G/280P-PU00	250/280	3×380-440	472	480	509	525	1564
		3×440-480	436	443	461	478	
SA710-4T280G/315P-PU00	280/315	3×380-440	525	540	568	585	1700
		3×440-480	475	490	510	522	
SA710-4T315G/355P-PU00	315/355	3×380-440	590	605	621	634	1870
		3×440-480	531	540	557	566	
SA710-4T355G/415P-PU00	355/415	3×380-440	647	660	694	725	2125
		3×440-480	580	590	628	655	
SA710-4T415G/450P-PU00	415/450	3×380-440	718	745	776	805	2380
		3×440-480	653	678	708	735	
SA710-4T450G/500P-PU00	450/500	3×380-440	836	827	932	918	2600
		3×440-480	722	714	805	793	
SA710-4T500G-PU00	500	3×380-440	932	918	/	/	3100
		3×440-480	805	793	/	/	
SA710-4T560G-PU00	560	3×380-440	1021	1028	/	/	3600
		3×440-480	882	888	/	/	
SA710-4T630G-PU00	630	3×380-440	1178	1100	/	/	4100
		3×440-480	1017	1000	/	/	

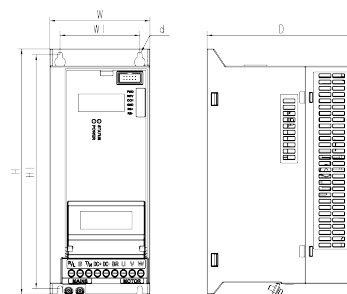
控制单元主要规格型号/Main specifications and models of control unit

控制单元规格型号/Specification and model of control unit	CU00/CU0H	CU02	CU03	CU04
数字量输入/Digital input	6	5	8	6
数字量输出/Digital output	1	1	4	2
模拟量输入/Analog input	2路, 可配置为DI 2, configurable as DI	2路, 可配置为DI 2, configurable as DI	4	2
模拟量输出/Analog output	1	2	2	1
继电器输出/Relay output	2	2	0	2
通讯端口/Communication port	1 RS485	1 RS485	1 RS485	1 RS485
输出电源/Output power supply	10 V/30mA 24V/200mA	10 V/30mA 24V/200mA	10 V/30mA 24V/200mA	10 V/30mA 24V/200mA
扩展卡接口数量/ Number of option card interface	1	1	2	2
操作键盘/Operating keyboard	内置/Built-in	内置/Built-in	可拔插/Pluggable	可拔插/Pluggable

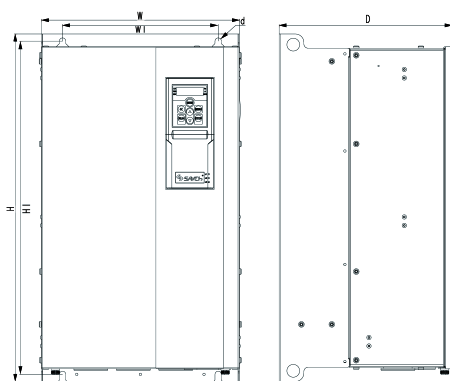
SA710 标准机尺寸说明/Standard inverter(SA710-PU00 CU00) Dimensions



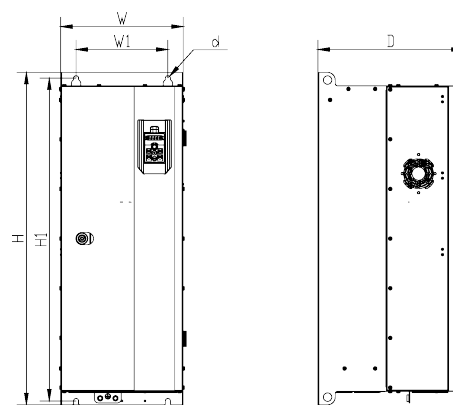
D1 Power unit size



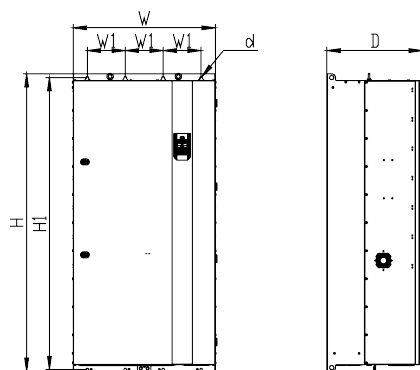
D2-D4 Power unit size



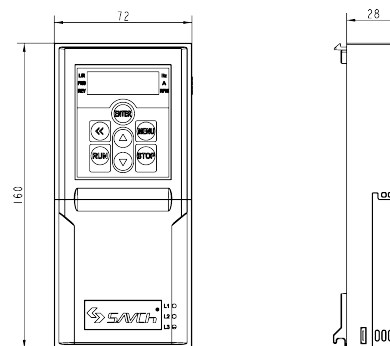
D5-D6 Power Unit/Complete inverter size



D7-D9 Complete inverter size



D10 Complete inverter size



CU00/CU0H

机壳 /Frame size	功率及电压等级/Power and voltage level			尺寸/size (mm)					
	1 × 200-240V	3 × 200-240V	3 × 380-480V	W	H	D	W1	H1	d
D1	0.37-1.5 kW	0.37-1.5kW	0.75-2.2 kW	72	188	128	55	175	4.5
D2	2.2 kW	2.2kW	4.0 kW	88	215	130	70	205	4.5
D3	4.0 kW	4.0kW	5.5-7.5 kW	100	250	135	80	240	4.5
D4	-	5.5-11kW	11-22 kW	170	370	150	145	355	6.5
D5	-	15-22kW	30-45 kW	280	490	245.5	220	470	9
D6	-	-	55-90 kW	330	620	265	270	600	9
D7	-	-	110-160 kW	320	870	380	240	845	13
D8	-	-	185-315 kW	500	1070	410	380	1040	13
D9	-	-	355-450 kW	650	1220	430	480	1190	13
D10	-	-	500-630 kW	750	1570	505	3×200	1540	13
CU00/CU02				72	260	28			
CU03				72	260	61			

SA710 产品应用—太阳能光伏扬水/SA710 Application for solar pump



- ◆ 内置MPPT（最大功率点跟踪），最大化您的功率输出
Built in MPPT (maximum power point tracking) to maximize your power output
- ◆ 支持电网交流输入和光伏直流输入
Support grid AC input and photovoltaic DC input
- ◆ 直流电压范围从120Vdc到750Vdc（可订购1000Vdc产品）
The DC voltage ranges from 120vdc to 750vdc.(1000Vdc products also available)
- ◆ 根据日出日落自动启停
Start and stop automatically according to sunrise and sunset
- ◆ 断电自动恢复
Automatic recovery after power failure
- ◆ 内置保护功能，包括空载、超压等
Built in protection function, including no-load, overpressure, etc
- ◆ 兼容自动启动/停止等控制
Compatible with automatic start / stop control
- ◆ 定制功能可满足您的特殊需求
Customized features to meet your special needs



SA710 产品应用—冷镦机/Cold pier machine

- ◆ 低频特性好
Excellent Torque performance at low speed
- ◆ 过载能力强
High overload capacity
- ◆ 点动响应快
Fast jog response for mold adjustment
- ◆ 动态响应好
Excellent dynamic performance
- ◆ 完善的故障保护功能及掉电存储功能
Perfect fault protection function and power-off storage function
- ◆ 电磁兼容性好，抗干扰能力强
Good EMC performance



SA710 产品应用—数控机床/CNC machine

- ◆ 低频力矩大、输出平稳。低频时（1~10Hz）能输出150%额定转矩
Large low-frequency torque and stable output. 150% rated torque can be output at low frequency (1~10Hz)
- ◆ 转矩动态响应快、稳速精度高。能实现很好的动态响应效果，依据负载的变化，通过输出转矩的变化很快做出响应，从而实现转轴速度的稳定
Fast dynamic response of torque and high precision of steady speed. The output torque can follow the load change very fast so as to achieve the stability of the speed of the rotating shaft
- ◆ 自动转矩补偿，满足机床主轴在低速情况下的加工需求
Automatic torque compensation to meet the high torque demands at low speed
- ◆ 加速/减速/停车快
Strong ability for fast ramp up ,ramp down and stop



合作客户 COOPERATIVE CLIENT



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已获资质 Qualification

ISO9001体系认证及CE产品认证

Received ISO9001 and CE recognition

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