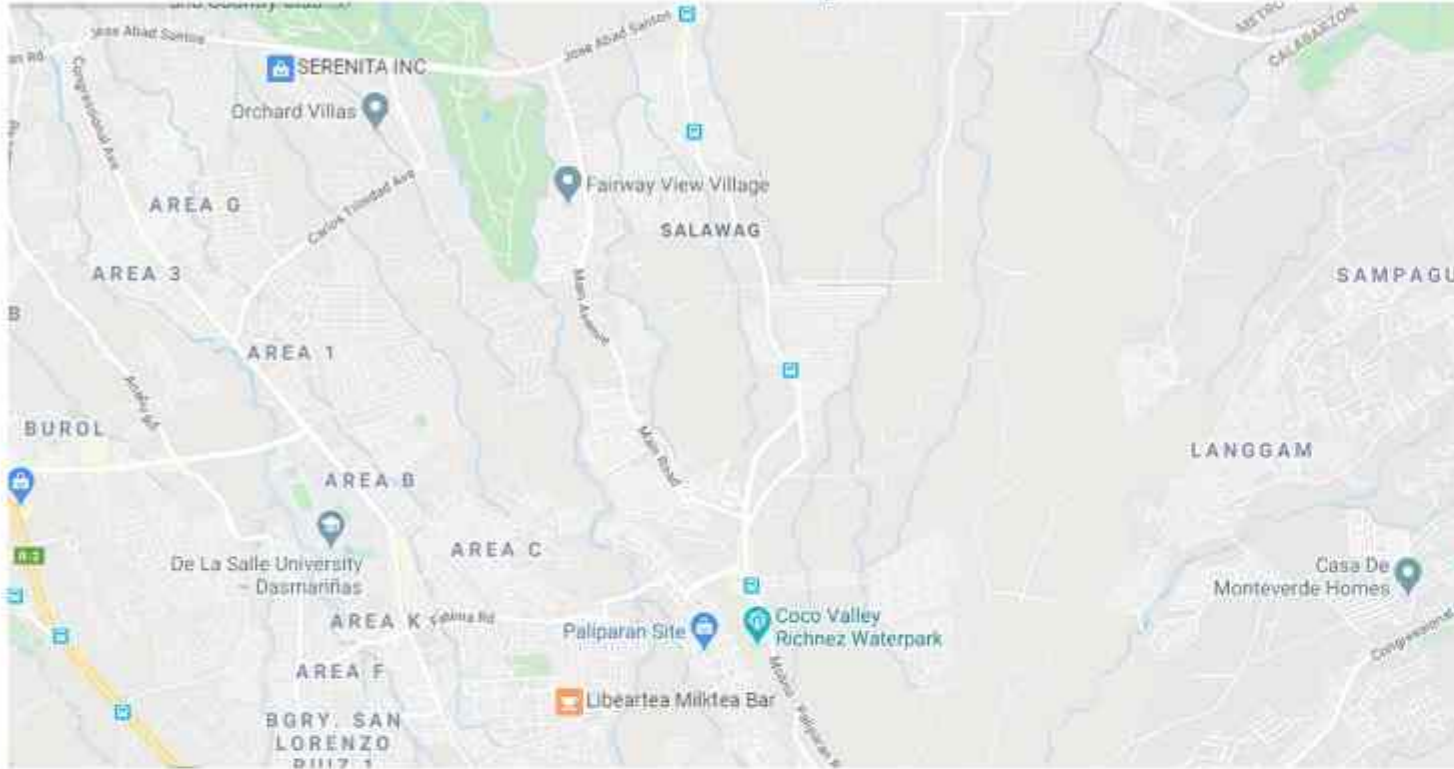


Unit 57 & 58 Century Complex V Salawag, Dasmariñas, Cavite



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Catalog



Inverter

01-08



Soft Starter

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Speed Control

14-16



Transformer

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Current Transformer

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Circuit Breaker

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Contactor

29-35

变频器系列 Inverter



用途 Applications

印刷机械 Printing machine	包装机械 Packaging machine	卷绕机械 Winding machine	吹膜机 Film blowing machine
高速雕铣机 High-speed engraving and milling machine	加工中心 machining center	车床 Lathe	铣床 Milling machine
深孔钻 Deep hole drill	磨床 Grinding machine	风机 水泵 Fan pump	拉丝机 Wire drawing machine

WSTG600系列变频器 WSTG600 Series High Performance Vector Frequency Inverter



支持同步电机和异步电机驱动
Support Synchronous and Asynchronous motor
速度传感器和无速度传感器矢量控制
Speed-sensor control and speed-sensorless
control programmable
位置控制、速度控制和转矩控制
Position control, speed control and torque control
programmable

WSTG600型号含义 WSTG600 Model Explanation

WSTG600 T 0.7 G B	
公司名称 Company name	制动单元 Brake unit
变频器系列 Inverter series	空 Empty 无 Nothing
电压等级 Voltage level	B 含制动单元 Include Brake unit
2S 单相220V Single-phase 220V	机型 Type
2T 三相220V Three-phase 220V	G 通用机型 General Type
4T 三相380V Three-phase 380V	P 风机水泵型 Fan pump type
5T 三相480V Three-phase 480V	适配电机功率 Adaption motor power
7T 三相690V Three-phase 690V	标识 Identification 0.4 0.75 ---- 11 ----
CT 三相1140V Three-phase 1140V	适配电机 (kW) Adaption motor 0.4 0.75 ---- 11 ----

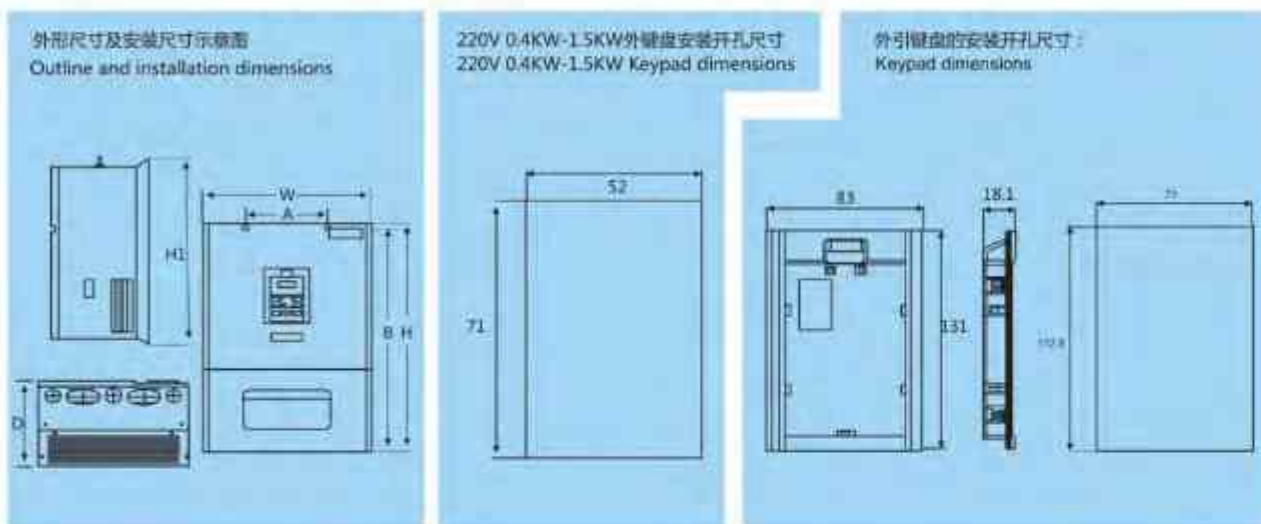
WSTG600系列技术参数 WSTG600 Series Datasheet

单相电源(Single phase power supply) 220V 50/60Hz					
变频器型号 Model	电源容量kVA Power Capacity	输入电流 Input current	输出电流 Output current	适配电机 Adaption motor	
				kW	HP
WSTG600-2S0.4GB	1.0	5.4	2.3	0.4	0.5
WSTG600-2S0.7GB	1.5	8.2	4.0	0.75	1
WSTG600-2S1.5GB	3.0	14.0	7.0	1.5	2
WSTG600-2S2.2GB	4.0	23.0	9.6	2.2	3
WSTG600-2S4.0GB	5.9	18	19.2	4	5

WSTG600系列技术参数 WSTG600 Series Datasheet

三相电源 (Three-phase power supply) 380V 50/60Hz					
变频器型号 Model	电源容量kVA Power Capacity	输入电流 Input current	输出电流 Output current	适配电机 Adaption motor	
				kW	HP
WSTG600-4T0.7GB	1.5	3.4	2.1	0.75	1
WSTG600-4T1.5GB	3.0	5.0	3.8	1.5	2
WSTG600-4T2.2GB	4.0	5.8	5.1	2.2	3
WSTG600-4T4.0GB	5.9	10.5	9.0	4.0	5
WSTG600-4T5.5GB WSTG600-4T5.5P-B	8.9	14.6	13.0	5.5	7.5
WSTG600-4T7.5GB WSTG600-4T7.5P-B	11.0	20.5	17.0	7.5	10
WSTG600-4T11GB WSTG600-4T11P-B	17.0	26.0	25.0	11.0	15
WSTG600-4T15GB WSTG600-4T15P-B	21.0	35.0	32.0	15.0	20
WSTG600-4T18.5GB WSTG600-4T18.5P-B	24.0	38.5	37.0	18.5	25
WSTG600-4T22GB WSTG600-4T22P	30.0	46.5	45.0	22	30
WSTG600-4T30GB WSTG600-4T30P	40.0	62.0	60.0	30	40
WSTG600-4T37GB WSTG600-4T37P	57.0	76.0	75.0	37	50
WSTG600-4T45GB WSTG600-4T45P	69.0	92.0	91.0	45	60
WSTG600-4T55GB WSTG600-4T55P	85.0	113.0	112.0	55	70
WSTG600-4T75GB WSTG600-4T75P	114.0	157.0	150.0	75	100
WSTG600-4T90GB WSTG600-4T90P	134.0	180.0	176.0	90	125
WSTG600-4T110GB WSTG600-4T110P	160.0	214.0	210.0	110	150
WSTG600-4T132GB WSTG600-4T132P	192.0	256.0	253.0	132	175
WSTG600-4T160GB WSTG600-4T160P	231.0	307.0	304.0	160	210
WSTG600-4T185GB WSTG600-4T185P	234.0	326.0	350.0	185	250
WSTG600-4T200GB WSTG600-4T200P	250.0	385.0	377.0	200	260
WSTG600-4T220GB WSTG600-4T220P	280.0	430.0	426.0	220	300
WSTG600-4T250GB WSTG600-4T250P	355.0	468.0	465.0	250	350
WSTG600-4T280GB WSTG600-4T280P	396.0	525.0	520.0	280	370
WSTG600-4T315GB WSTG600-4T315P	445.0	590.0	585.0	315	500
WSTG600-4T355GB WSTG600-4T355P	500.0	665.0	650.0	355	420
WSTG600-4T400GB WSTG600-4T400P	565.0	785.0	725.0	400	530
WSTG600-4T450P	630.0	883.0	820.0	450	600

WSTG600系列外形和安装尺寸 WSTG600 series Outline and Installation Dimensions



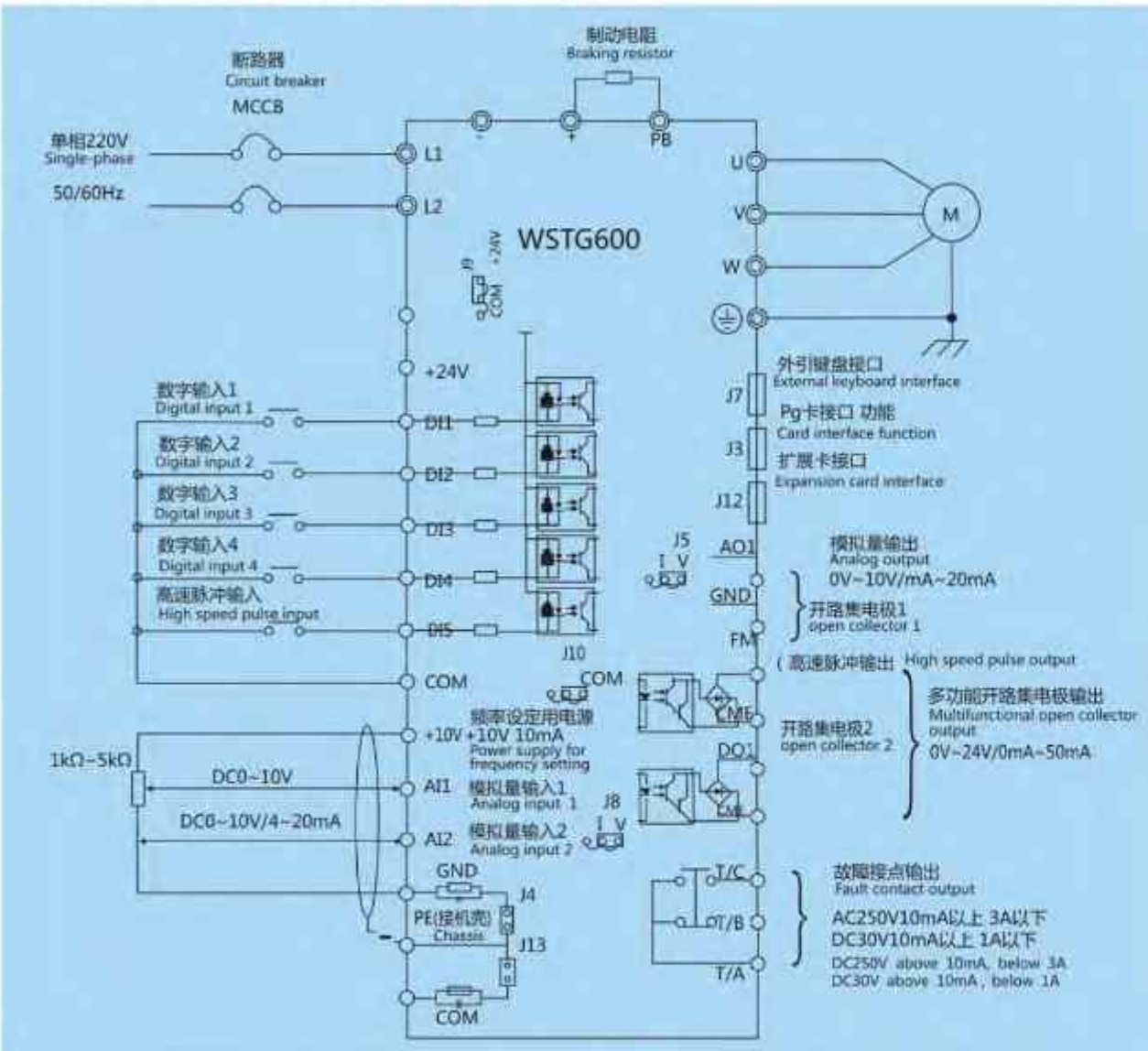
产品型号 Model	安装孔位(mm) Mounting Holes		外形尺寸 (mm) External dimensions				安装孔径 (mm) Diameter	重量(kg) Weight
	A	B	H	H1	W	D		
单相 (Single phase power)220V								
WSTG600-2S 0.4GB	74	131	142	/	85	112.5	ø 5	1.1
WSTG600-2S 0.7GB								
WSTG600-2S 1.5GB								
WSTG600-2S 2.2GB	70	180	189	/	93	154	ø 5	1.1
WSTG600-2S 4.0GB	80	233	245	/	120	173	ø 5	1.1
三相 (Three-phase power)380V								
WSTG600-4T0.7GB	70	180	189	/	93	154	ø 5	1.1
WSTG600-4T1.5GB								
WSTG600-4T2.2GB								
WSTG600-4T4.0GB	80	233	245	/	120	173	ø 5	2.5
WSTG600-4T5.5P-B								
WSTG600-4T5.5GB	125	288	281	/	145	185	ø 6	2.5
WSTG600-4T7.5P-B								
WSTG600-4T7.5GB								
WSTG600-4T11P-B								
WSTG600-4T11GB	150	325	340	/	204	214	ø 6	6.5
WSTG600-4T15P-B								
WSTG600-4T15GB								
WSTG600-4T18.5P-B								

WSTG600系列外形和安装尺寸 WSTG600 series Outline and Installation Dimensions

产品型号 Model	安装孔位(mm) Mounting Holes		外形尺寸 (mm) External dimensions				安装孔径 (mm) Diameter	重量(kg) Weight
	A	B	H	H1	W	D		
三相 (Three-phase power)380V								
WSTG600-4T18.5G	150	380	400	/	228	217	6	6.5
WSTG600-4T22P								
WSTG600-4T22G								
WSTG600-4T30P	200	440	460	/	262	242	ø 8	20
WSTG600-4T30G								
WSTG600-4T37P								
WSTG600-4T37G	235	528	550	/	320	253	ø10	32
WSTG600-4T45P								
WSTG600-4T45G								
WSTG600-4T55P								
WSTG600-4T55G								
WSTG600-4T75P	240	635	655	/	380	253	ø10	47
WSTG600-4T75G								
WSTG600-4T90P								
WSTG600-4T90G								
WSTG600-4T110P								
WSTG600-4T110G	400	760	790	/	586	317	ø10	90
WSTG600-4T132P								
WSTG600-4T132G								
WSTG600-4T160P								
WSTG600-4T160G	300	1090	1100	/	400	400	ø 10	122
WSTG600-4T185P								
WSTG600-4T185G								
WSTG600-4T200P								
WSTG600-4T200G	560	1460	1600	/	500	420	ø12	130
WSTG600-4T220P								
WSTG600-4T220G								
WSTG600-4T250P								
WSTG600-4T250G								
WSTG600-4T280P	580	1160	1210	/	768	400	ø14	200
WSTG600-4T280G								
WSTG600-4T315P								
WSTG600-4T315G								
WSTG600-4T355P								
WSTG600-4T355G	580	1160	1210	/	768	400	ø14	200
WSTG600-4T400P								
WSTG600-4T400G								
WSTG600-4T450P	580	1160	1210	/	768	400	ø14	200
WSTG600-4T450G								
WSTG600-4T450P								

WSTG600单相220V变频器接线示意图

WSTG600 Single phase 220V inverter wiring diagram

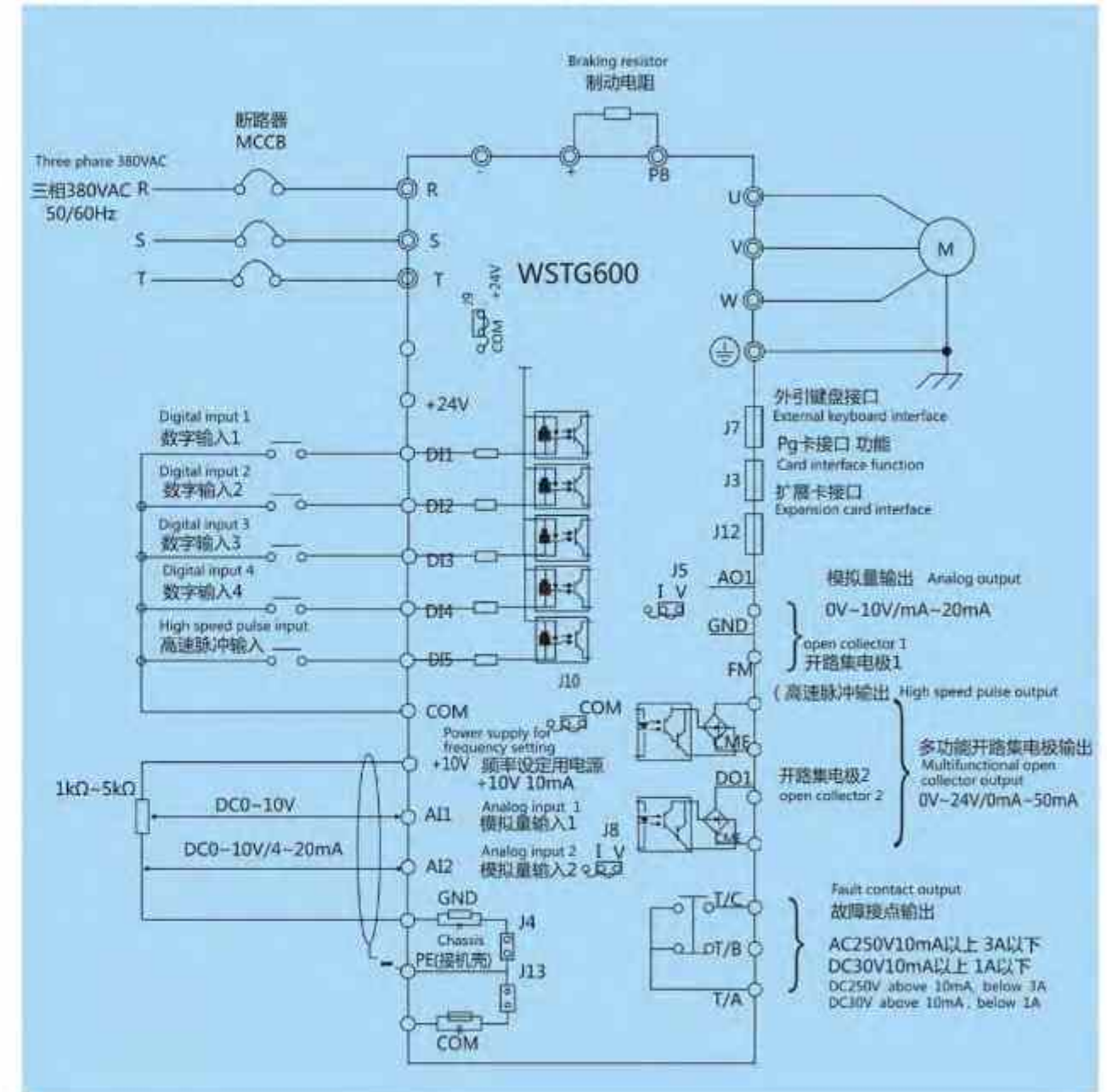


注意事项(Note):

- 1) 端子⊗表示主回路端子, ○表示控制回路端子
Terminal ⊗ Main circuit terminals, ○ Control circuit terminal.
- 2) 单相220V 0.4kW~2.2kW内置制动单元为标准配置
Single phase 220 V 0.4kW~2.2kW built-in brake unit is standard configuration
- 3) 产品型号后带“B”表示制动单元
Product model with “B” means with the brake unit
- 4) 制动电阻根据用户需要选择, 详见制动电阻选型指南
Braking resistor according to the user's requirement, see the braking resistor selection guide
- 5) 信号线与动力线必须分开走线, 如果控制电缆和电源电缆交叉, 应尽可能使它们按90度角交叉, 模拟信号线最好选用屏蔽双绞线, 动力电缆选用屏蔽的三芯电缆(其规格要比普通电机的电缆大一档)或遵从变频器的用户手册。
Signal lines and power lines must be separated, if the control cable and power cable cross, should keep them cross as angle of 90 degrees, Analog signal cable need choose shielding twisted pair, The power cable choose three core shielded cable (Larger than the motor cable) or according to the inverter user manual.

WSTG600三相380V变频器接线示意图

WSTG600 Three phase 380V inverter wiring diagram



注意事项(Note):

- 1) 端子⊗表示主回路端子, ○表示控制回路端子
Terminal ⊗ Main circuit terminals, ○ Control circuit terminal.
- 2) 0.75~18.5kW内置制动单元为标准配置, 无需另外安装。
0.75~18.5kW Standand type is with built-in brake unit, no need install again.
- 3) 制动电阻根据用户需要选择, 详见制动电阻选型指南。
Braking resistor according to the user's requirement, see the braking resistor selection guide

外围器件的标准配置图

Standard layout of the peripheral devices



名称 Device	使用说明 Instructions
电源 Power Supply	输入三相交流电源需满足说明书规定范围 Input three-phase AC power supply according to the user manual
断路器 Circuit breaker	用途: 在后级设备出现异常过流时, 起到分断电源, 保护后级设备的作用。 选型: 断路器的分断电流按变频器额定电流的1.5~2倍选取; 断路器的时间特性需要根据变频器过载保护的时间特性选取。 Usage: When the post equipment over current, it will be cut the power supply and protect the post equipment. Selection: The breaking current of the circuit breaker is 1.5~2 times of the rated current of the inverter; The time characteristic of circuit breaker needs to be selected according to the inverter overload protection time characteristic.
漏电保护器 Leakage protector	用途: 由于变频器的输出是PWM高频斩波电压, 因此高频电流不可避免。 选型: 建议选B型专用漏电保护器。 Usage: Because the inverter output is PWM high frequency chopping voltage, the high frequency current is inevitable. Selection: Recommended B type special leakage protector.
接触器 Contactor	为了确保安全, 请不要频繁的闭合和断开接触, 这将引起变频器故障; 不要用闭合和断开接触器对系统通断电的方式变频器的启停, 这将降低变频器的寿命。 In order to ensure safety, please do not close and disconnect frequently, which will cause inverter failure; Do not use the closed and disconnect the contactor on the system through the power of the inverter start and stop, which will reduce the life of the inverter
输入交流电抗器 Input AC reactor	改善功率因数; 改善三相输入交流电源不平衡对系统的影响; 控制高次谐波, 减少对外传导和辐射干扰; 有效减少脉冲电流对整流桥的影响。 Improve the efficiency factor; Improve the effect of unbalanced three-phase AC power supply on the system; Control the high order harmonics, reduce the interference of the external conduction and radiation, effectively reduce the pulse current on the rectifier bridge.
输入滤波器 Input filter	减少电源端到变频器的传导干扰, 提高变频器抗干扰能力, 减少变频器对外传导和辐射干扰。 Reducing the conduction interference from the power supply to the inverter; Improve the anti-interference ability of frequency inverter; Reduce the external conduction and radiation interference.
制动单元和 制动电阻 Braking unit and braking resistor	用途: 制动时, 有效地消耗电机回馈的能量而实现快速制动。 选型: 制动单元的选型请直接与我司技术人员联系, 制动电阻的选型参考外围器件选型表。 Use: When braking, it can effectively use the energy of the motor to achieve fast braking. Selection: The selection of brake unit, please contact our technical staff directly, the braking resistor selection reference peripheral device selection table.
输出滤波器 Output filter	减少变频器对外的传导和辐射干扰。 Reduce the external conduction and radiation interference
输出交流电抗器 Output AC reactor	有效避免因谐波电压损坏电机绝缘; 减少因漏电流使得变频器频繁保护。 当变频器到电机的连线超过100m时, 建议安装输出交流电抗器。 It can effectively avoid the damage of the motor insulation due to the hidden wave voltage and reduce the frequency of the frequency converter. When the inverter to the motor connection over 100m, it is recommended to install the output AC reactor.
电机 Motor	选用与变频器匹配的电机 Selection of motor matched with frequency inverter

软起动器系列 Soft Starter



用途 Applications

压缩机
Compressor

破碎机
Crusher

风机
Fan

输送机械
Conveying machinery

水泵
Water pump

更多应用 More application

涡轮鼓风机
Turbo blower

轴流风机
Axial flow fan

螺旋压缩机
Screw compressor

搅拌机
Blender

消防泵
Fire pump

货油泵
Cargo pump

纸浆机
Pulp machine

WSTRD系列电机软启动器是威士顿研发团队自主研发的新一代内置旁路式，多功能智能型软启动器。集成了旁路接触器与热继电器于一体，极大的消减了启动设备的制造成本，体积大小。同时WSTRD系列和WSTR系列具有远程通讯协议支持，全中文/全英文液晶显示，并且对内部结构与功能进一步的优化，为客户提供高抗干扰，多种保护功能与多种控制模式。

凡说明内置旁路均特指WSTRD3000系列，手册后部不再赘述

WSTRD series Motor Soft Starter is a new generation of Internal bypass and Multi-functional intelligent Soft Starter, independently researched and developed by the Winston Engineers Group. Integrated the Bypass AC Contactor and the Thermal Relay in one, WSTRD series Motor Soft Starter greatly reduces the cost of manufacturing and the size of Volume. Meanwhile, WSTRD series and WSTR series support the Remote Communication Protocol, whose LCD can show Chinese / English by selection; further optimizing the internal structure and functions, providing high anti-interference, a various of protection functions and control models.

Built-in bypass Motor Soft Starter hereafter referred to as WSTRD3000



完备的保护功能

Complete protection function

软启动过热保护	Soft start overheat protection
输入缺相保护	Input phase protection
输出缺相保护	Output phase protection
三相不平衡保护	Three-phase unbalance protection
启动过流保护	Start over current protection
运行过载保护	Run overload protection
电源电压过低保护	Low voltage protection
电源电压过高保护	Over voltage protection
负载短路保护	Load short circuit protection

多种启动与停止模式

Multiple start and stop modes

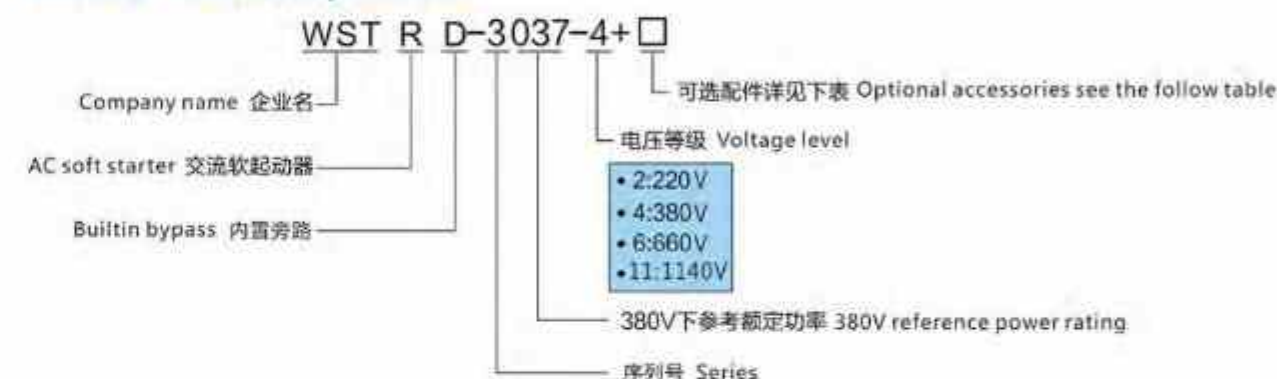
限电流启动模式启动	Current limit start
电压斜坡启动	Voltage ramp start
突跳模式启动	Jump mode start
电流斜坡启动	Current ramp start
电压限流双闭环启动	Voltage limited current double closed loop start
软停止	Soft stop
自由停止	Free stop

多种控制支持

Various control support

可编程继电器输出	Programmable relay output
可编程故障继电器输出	Programmable fault relay output
4-20mA直流模拟输出	4 - 20mA DC analog output
RS485通信的输入/输出	Rs485 communication input / output

型号含义 Model Explanation



可选附件表 Optional accessories table

附件名称 Attachment Name	选型编号 Selection Number	选项说明 Option Description
面板外引延长线 Panel outside extension cable	A3	数字部分表示线材长度 The digital part is mean the cable length
英文液晶面板 English LCD panel	E	
Modbus通讯卡 Modbus communication card	M	部分机型提供默认预置 Some models offer default presets
Profibus通讯卡 Profibus communication card	P	
CANopen通讯卡 CANopen communication card	C	

控制端子连接图 Control terminal connection diagram



WSTR3000系列额定功率表

WSTR3000 series Rated Power Table

软启动器 230V/400V/660V-50/60Hz Soft starter		电机额定功率 Rated motor power			机型外观 Model appearance
软启动器型号 Soft starter model	工作最大允许电流 Working maximum allowable current	220V	380V	660V	(详见下页) Please refer to the following page
WSTR3018	38	9 KW	18.5 KW	30 KW	R1
WSTR3022	44	11 KW	22 KW	37 KW	
WSTR3030	60	15 KW	30 KW	45 KW	
WSTR3037	74	18.5 KW	37 KW	55 KW	
WSTR3045	100	22 KW	45 KW	75 KW	
WSTR3055	110	30 KW	55 KW	90 KW	
WSTR3075	150	37 KW	75 KW	115 KW	
WSTR3090	160	45 KW	90 KW	132 KW	
WSTR3115	200	55 KW	115 KW	160 KW	R2
WSTR3132	250	75 KW	132 KW	200 KW	
WSTR3160	300	90 KW	160 KW	250 KW	
WSTR3200	360	115 KW	200 KW	355 KW	
WSTR3250	480	132 KW	250 KW	400 KW	R3
WSTR3315	590	160 KW	315 KW	560 KW	
WSTR3355	660	-	355 KW	630 KW	
WSTR3400	790	200 KW	400 KW	710 KW	
WSTR3500	1000	250 KW	500 KW	900 KW	
WSTR3630	1200	355 KW	630 KW	-	

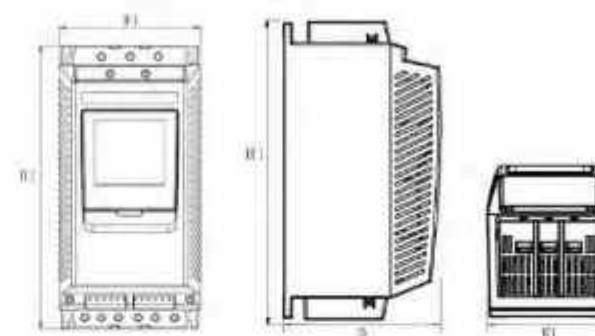
WSTRD3000系列额定功率表

WSTRD3000 series Rated Power Table

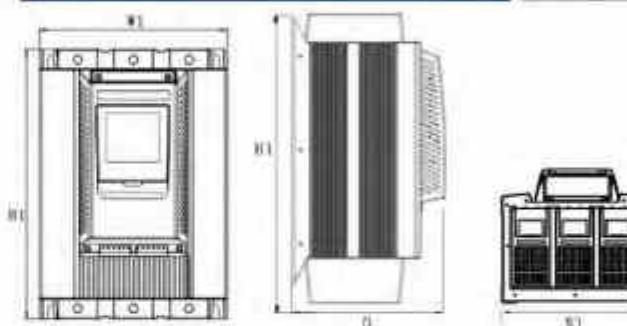
软启动器 230V/400V/660V-50/60Hz Soft starter		电机额定功率 Rated motor power			机型外观 Model appearance
软启动器型号 Soft starter model	工作最大允许电流 Working maximum allowable current	220V	380V	660V	(详见下页) Please refer to the following page
WSTRD3018	38	9 KW	18.5 KW	30 KW	R1
WSTRD3022	44	11 KW	22 KW	37 KW	
WSTRD3030	60	15 KW	30 KW	45 KW	
WSTRD3037	74	18.5 KW	37 KW	55 KW	
WSTRD3045	100	22 KW	45 KW	75 KW	
WSTRD3055	110	30 KW	55 KW	90 KW	
WSTRD3075	150	37 KW	75 KW	115 KW	
WSTRD3090	160	45 KW	90 KW	132 KW	R4
WSTRD3115	200	55 KW	115 KW	160 KW	
WSTRD3132	250	75 KW	132 KW	200 KW	
WSTRD3160	300	90 KW	160 KW	250 KW	
WSTRD3200	360	115 KW	200 KW	355 KW	

* 表内额定功率仅为标准负载的参考值，遇负载较重或应用要求特殊时，应选择更大额定功率等级的软启动器。
The rated power in the table is standard load power. When the load is heavy or the application is special, should select a higher rated power rating.

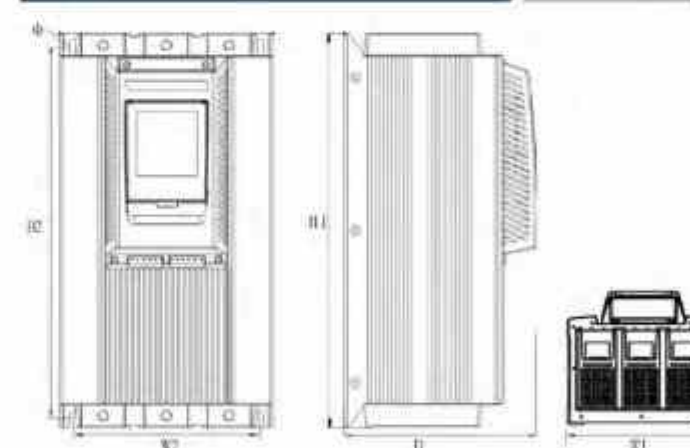
R1



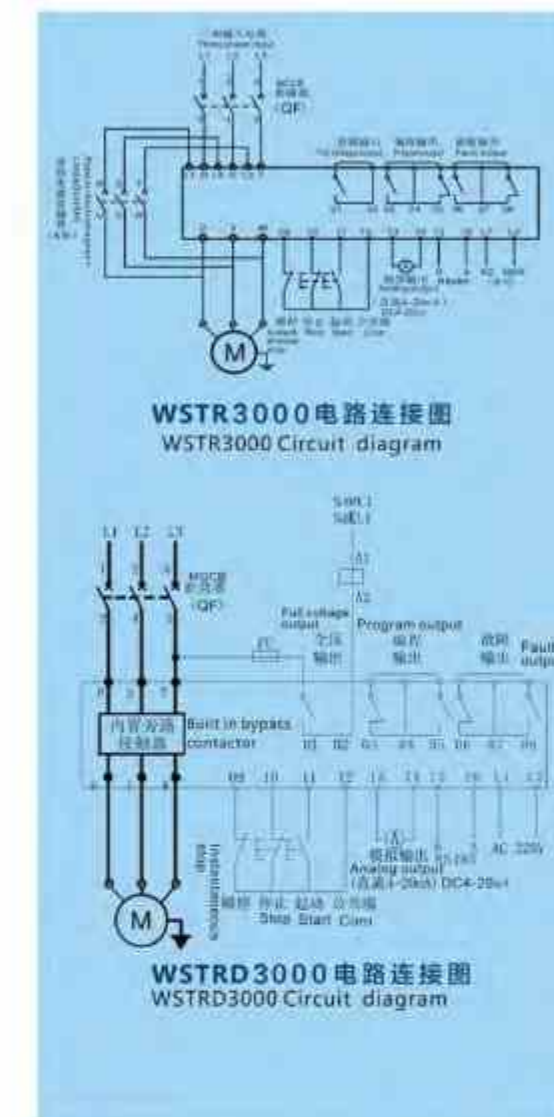
R2/R3



R4



规格型号 Model	外形尺寸Dimensions(mm)			安装尺寸Installation dimensions(mm)			包装尺寸Package Size(cm)			重量 weight (KG)
	H1	W1	D	H2	W2	Φ	H3	W3	D3	
R1	310	155	175	296	127	M6	38	23.5	27.5	5
R2	400	270	240	355	244	M8	65	39	38	20.5
R3	455	300	265	395	265	M8	57.5	43	39	31
R4	525	265	240	490	235	M8	65	40	38	27



调速控制器 Speed Control



JD1系列电磁调速电动机控制装置 JD1 series Electromagnetic Motor Activator

JD1系列电磁调速电动机控制装置是机械电子工业部联合设计国家第十批重点推广的节能型产品，主要用于电磁调速电动机的速度控制，实现恒转矩无级调速，当负载为风机和泵类时有明显的节电效果。

JD1 series electromagnetic adjustable speed motor control device is the Ministry of machinery and electronics industry joint design of the tenth batch of national key promotion of energy-saving products, mainly used for electromagnetic speed control motor speed control, Constant torque step less speed regulation, when the load for the fan and pump when there is a significant power saving effect.

型号含义 Model and Explanation



使用条件 Working conditions

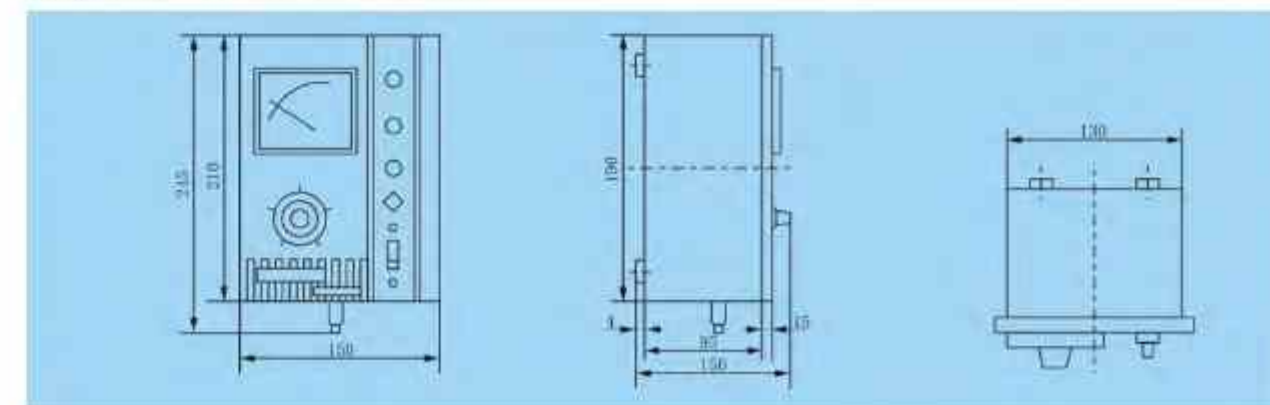
1. 海拔不超过：1000米；
2. 周围环境温度：-5℃~+40℃；
3. 相对湿度不超过90%（20℃以下）；
4. 振动频率范围为10Hz~150Hz时，其最大振动加速度不超过0.5g；
5. 电网电压幅值波动±10%额定值时，保证稳定使用；
6. 周围介质没有导电尘埃和腐蚀性破坏绝缘的气体。

1. Altitude not exceeding 1000m
2. Ambient temperature:-5℃~40℃
3. Relative humidity not more than 90%(below20℃)
4. Frequency range10Hz~150Hz,the maxi vibration not more than 0.5g
5. Voltage fluctuation±10% rating operating is guaranteed
- 6.The working place shall have no conductive gas.

型号规格及技术数据 Model specification and technical data

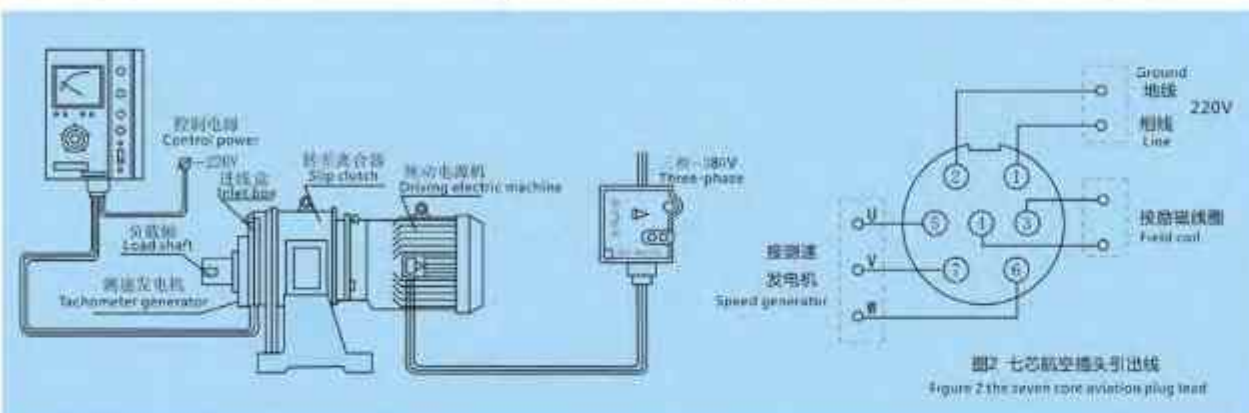
型号 Model	JD1A-11	JD1A-40	JD1A-90
电源电压 Power supply	AC220V±10% Frequency 50~60Hz		
最大输出额定 Maximum output rating	直流 DC 90V 3A	直流 DC 90V 5A	直流 DC 90V 8A
可控电机功率 Controllable motor power	0.55kW~11kW	11kW~40kW	40kW~90kW
测速发电机 Tachogenerator	三相中频电压转速比为 voltage speed ratio when three phase ≤2V/100r/min		
转速变化率 Speed change rate	≤2.5%		
稳速精度 Speed stabilization accuracy	≤1%		
*调速范围 * Speed range	100~1420转/分 100~1420r/min	130~1420转/分 130~1420r/min	130~1420转/分 130~1420r/min

外形尺寸 Outline dimensions



控制箱与电磁阀调速异步电动机使用连线

Control box and solenoid valve speed control asynchronous motor connection



具有软启动和无限调速功能
With soft start and step less speed regulation function

US-52交流电机调速器 US-52 AC Speed regulator

工作电压(Working voltage): AC220V 50Hz
额定功率(Rated power): 15W, 25W, 40W, 60W, 90W, 120W, 180W, 200W, 250W

调速范围(Speed range): 90-2800r/min 50Hz

控制方式(Control):

正转/反转可选择(Forward/Reverse option):

COM与CW接通为正转, COM and CW is Forward, COM与CCW接通为反转, COM and CCW is Reverse.

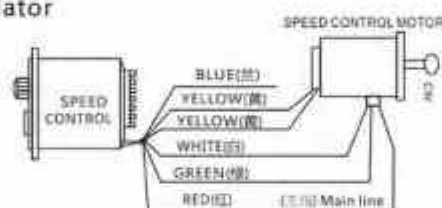
适用范围: YYPJ, YCJT, YXCJ等五线制带调速线的电机

Application: YYPJ, YCJT, YXCJ Series motors and so on.

外形尺寸(Outline dimensions): 65×155×162mm

开孔尺寸(Holes dimensions): 82×54mm 90-Φ2×4.5mm

安装方式: 面板螺丝安装 Mounting: Panel screw install.



具有软启动和无限调速功能
With soft start and step less speed regulation function

DC-51直流电机调速器 DC-51 DC Speed regulator

工作电压(Working voltage): AC220V 50Hz

输出功率(Output power):

电压可以是DC24V, DC90V, DC180V, DC200V, DC220V, 最大电流不能超过2A.

Voltage can be DC24V, DC90V, DC180V, DC200V, DC220V, But the Max current should less than 2A.

控制方式(Control): 正转(Forward)

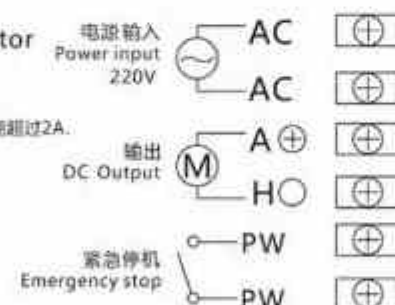
适用范围: 适用小于120W的二线直流电机

Application: Suit for less than 120W two wire DC Motor

外形尺寸(Outline dimensions): 100×60×112mm

开孔尺寸(Holes dimensions): 82×54mm 90-Φ2×4.5mm

安装方式(Mounting): 面板螺丝安装 Panel screw install



具有软启动和无限调速功能
With soft start and step less speed regulation function

SS-22小型交流电机调速器 SS-22 Mini AC Speed regulator

工作电压(Working voltage): AC220V 50/60Hz

输出功率(Output power): 15W, 25W, 40W, 60W, 90W, 120W, 180W, 200W, 250W

调速范围(Speed range): 90-2800r/min 50Hz

控制方式(Control): 正转/反转可选择 Forward/Reverse option

适用范围: YYPJ, YCJT, YXCJ等五线制带调速线的电机

Application: YYPJ, YCJT, YXCJ Series five cable motor

外形尺寸(Outline dimensions): 57×40×78mm

安装方式(Mounting): Din rail 35mm



变压器系列 Transformer



用途及结构特征 Use and structure characteristic

BK系列机床控制变压器(以下简称变压器)适用50-60Hz电压至500V的电路中,通常用作机床控制电路或局部照明灯及指示灯的电源之用。

The BK series engine bed control transformer (here after refers to as transformer) to be suitable the voltage of 500V frequency 50-60Hz electrical circuit. Usually serves as power supply for engine bed control electric appliance or the partial flare and indicating lamp.



型号及含义 Model and meaning

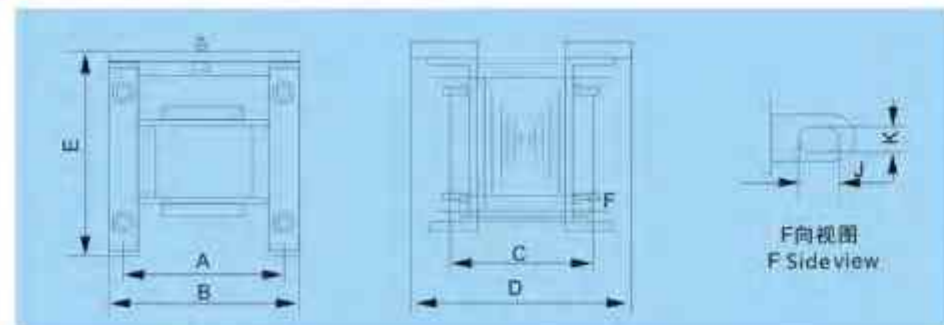


使用环境 Use environment

- 1、周围空气温度-5℃至+40℃, 24小时的平均值不超过+35℃;
- 2、安装地点海拔不超过2000m;
- 3、大气相对湿度在周围空气温度为+40℃时不超过50%, 在较低温度下可以有较高的相对湿度, 最湿月的平均最大温度为90%, 同时该月的月平均最低温度为+25℃, 并考虑到因温度变化发生在产品表面的凝露。

1. The surrounding air temperature is from -5℃ to 40℃, the average value is not exceed 35℃ of 24 hours;
2. The installation site elevation does not surpass 2000m;
3. The atmospheric relative humidity will less than 50 percent, once the ambient air temperature is +40℃, at lower temperatures can have relatively high temperature, the largest wetlands on the average humidity is 90%, while the average monthly minimum temperature is +25℃, and taking into account the temperature changes due to occur in the surface of Rich Products.

外形尺寸 External dimensions



BK系列外形和安装尺寸 BK series outline and installation dimension

型号 Model	外形尺寸 External dimensions			安装尺寸 Installation size		安装孔 (mounting hole)	
	B max	D max	E max	A±0.4	C±1.5	K	J
BK-25	76	80	77	65	50	5	7
BK-50	87	94	87	70	60	6	8
BK-100	108	95	101	85	65	6	8
BK-150	108	100	101	85	75	6	8
BK-200	108	107	101	85	80	6	8
BK-250	115	110	125	90	95	8	11
BK-300	115	115	125	90	100	8	11
BK-400	135	140	140	110	100	8	11
BK-500	135	145	140	110	105	8	11
BK-800	155	150	160	125	119	8	11
BK-1000	155	160	160	125	130	8	11
BK-1500	180	220	180	143	150	8	11
BK-2000	180	240	180	143	175	8	11
BK-2500	210	230	240	185	175	8	11
BK-3000	210	245	240	185	190	8	11
BK-4000	250	250	280	195	170	8	11
BK-5000	250	265	280	195	195	8	11



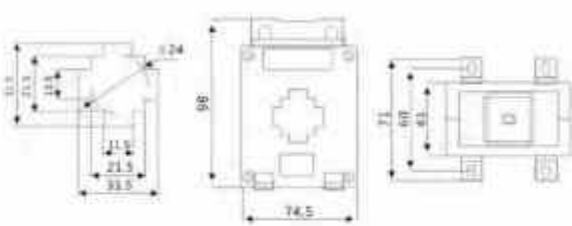
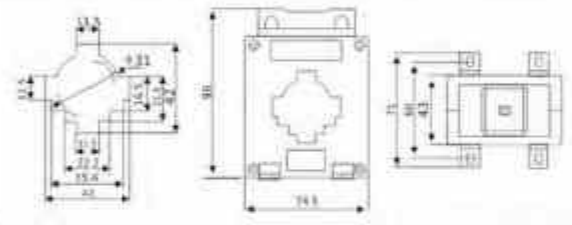
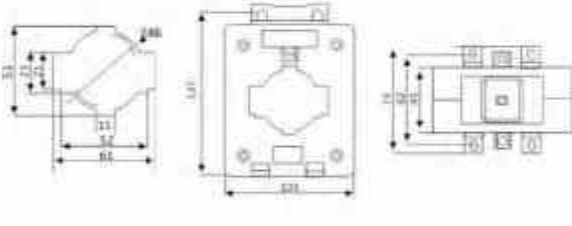
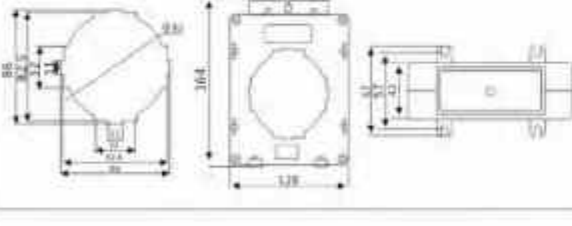
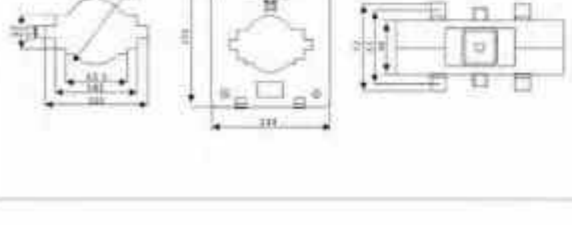
注意事项 Matters needing attention

注意事项:

- 1、购买前, 先估算好您所用的电器总容量, 并选用有相当容量的变压器, 确保瞬时启动时不烧坏变压器。
- 2、本变压器严格按照国家有关标准设计生产。当您使用多绕组(多控制电压)的变压器时, 容量应按电压比相应增加变压器容量, 以免烧坏变压器。
- 3、安装前, 应仔细校核铭牌所列各项数据是否符合您的要求, 确认无误后, 方可安装使用。
- 4、通电工作后, 变压器铁心和线圈将发热(但温升不超过80℃)属正常现象, 若温升超过80℃, 甚至冒烟, 则应切断电源开关, 重新检查您所用的电器容量。
- 5、在运输中, 应尽可能避免碰撞, 切勿受潮, 使用时请注意维护, 以保护变压器使用寿命。

1. Before purchase, first estimates the electric appliance aggregate capacity which you use, and select the suitable capacity transformer, guarantees the instantaneous starting will not burn the transformer.
2. This transformer strictly according to national related standard design production. When you use the multi-windings (multi-control voltage) transformer, the capacity should according to the ratio-voltage corresponding increase transformer capacity, in order to avoid burns out the transformer.
3. Before the installment, should examine the parameters carefully to sure whether them meet your requirement, after confirmed unmistakable, only then installs use.
4. (After the circular telegram work, the transformer core and the coil will heat but the temperature will not exceed 80℃) it is the normal phenomenon, if the temperature rise up 80℃, even belch smoke, please cut down the power source and inspect the electric appliance capacity which you using.
5. In the transportation, please avoid colliding as far as possible, please sure not to be affected with damp, when use, please note maintains, protects the transformer service life.

MSQ系列型号及尺寸 MSQ series Model and Dimensions

Dimensions	Type	Ratio (A)	Rated power(VA)	
			Class 0.5	Class 1.0
	MSQ-30	30/5	-	1.5(2T)
	MSQ-30	40/5	-	1.5(2T)
	MSQ-30	50/5	-	2.5(2T)
	MSQ-30	60/5	-	2.5(2T)
	MSQ-30	75/5	-	1.5
	MSQ-30	80/5	-	1.5
	MSQ-30	100/5	-	2.5
	MSQ-30	150/5	-	3.75
	MSQ-30	200/5	5	5
	MSQ-30	250/5	5	7.5
	MSQ-40	100/5	1.5	1.5
	MSQ-40	150/5	1.5	2.5
	MSQ-40	200/5	2.5	5
	MSQ-40	250/5	5	5
	MSQ-40	300/5	5	5
	MSQ-40	400/5	5	10
	MSQ-40	500/5	5	10
	MSQ-40	500/5	5	10
	MSQ-60	250/5	1.5	2.5
	MSQ-60	300/5	2.5	5
	MSQ-60	400/5	5	10
	MSQ-60	500/5	5	10
	MSQ-60	600/5	5	10
	MSQ-60	750/5	5	10
	MSQ-60	800/5	7.5	10
	MSQ-60	1000/5	10	15
	MSQ-60	1200/5	10	15
	MSQ-60	1500/5	15	15
	MSQ-85	750/5	5	10
	MSQ-85	800/5	7.5	10
	MSQ-85	1000/5	10	10
	MSQ-85	1200/5	10	15
	MSQ-85	1500/5	15	15
	MSQ-85	1600/5	15	15
	MSQ-85	2000/5	15	15
	MSQ-85	2000/5	15	15
	MSQ-100	800/5	7.5	10
	MSQ-100	1000/5	10	10
	MSQ-100	1200/5	10	15
	MSQ-100	1250/5	10	15
	MSQ-100	1500/5	15	15
	MSQ-100	1600/5	15	15
	MSQ-100	2000/5	15	15
	MSQ-100	2500/5	15	15
	MSQ-100	3000/5	15	15
	MSQ-100	3000/5	15	15

FEATURE

Two installation methods: Panel/Busbar

两种安装方式：底板/汇流排

Very easy to install

简易安装

Wide inner window, allowing clamping of big cables or bus-bars

内孔径宽，允许宽电缆线和汇流排的通过

Wide range of sizes to accommodate all the existing installation

尺寸满足多样安装

Rated primary current from 5A to 5000A

额定一次电流从5A到5000A

SPECIFICATIONS

Rated Frequency (额定频率)

50/60Hz

Rated Test Voltage (耐受电压)

3Kv AC.(1min)

Rated short-time thermal current (Ith)(额定热电流)

60In

Rated dynamic current (Idyn)(动稳定电流)

2.5Ith

Rated voltage (Um)(额定电压)

0.72Kv AC.

Continuous overload (Id)(过载)

1.2In

Operating temperature (工作温度范围)

-10°C~50°C

Flame retardant grade (外壳阻燃等级)

VO

Safety factor (准确限制系数)

FS 5

Secondary current (二次电流)

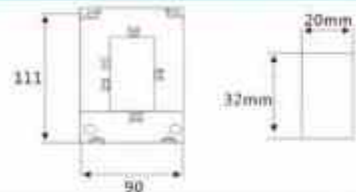
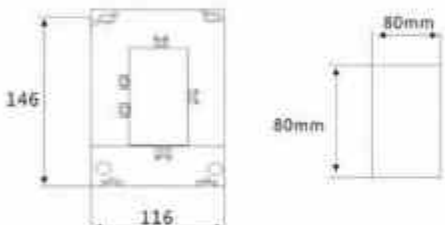
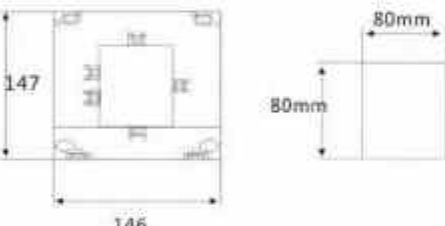
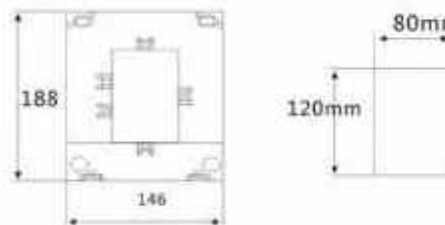
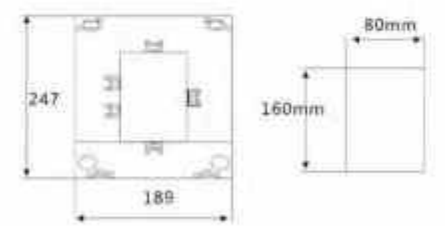
5A/1A

STANDARD

IEC60044-1 GB1208-2006



DP 系列型号及尺寸 DP Series Model and Dimensions

Dimensions	Type	Ratio (A)	Rated power(VA)	
			Class 0.5	Class 1.0
	DP-23	100/5	-	1.5
	DP-23	150/5	-	1.5
	DP-23	200/5	-	1.5
	DP-23	250/5	-	1.5
	DP-23	300/5	1.5	2.5
	DP-23	400/5	2.5	3.75
	DP-58	250/5	-	1.5
	DP-58	300/5	-	2.5
	DP-58	400/5	1.5	2.5
	DP-58	500/5	2.5	5
	DP-58	600/5	2.5	5
	DP-58	750/5	2.5	5
	DP-88	250/5	-	1.5
	DP-88	300/5	-	1.5
	DP-88	400/5	-	2.5
	DP-88	500/5	1.5	2.5
	DP-88	600/5	1.5	2.5
	DP-88	750/5	2.5	5
	DP-812	800/5	3.75	5
	DP-812	1000/5	7.5	7.5
	DP-812	500/5	-	2.5
	DP-812	600/5	-	2.5
	DP-812	750/5	2.5	5
	DP-812	1000/5	7.5	3.75
	DP-812	1200/5	10	5
	DP-812	1250/5	10	5
	DP-812	1500/5	10	5
	DP-816	1000/5	5	10
	DP-816	1500/5	7.5	10
	DP-816	2000/5	10	15
	DP-816	2500/5	15	20
	DP-816	3000/5	20	25
	DP-816	4000/5	20	25
	DP-816	5000/5	20	25
	DP-816	6000/5	20	25

断路器系列 Circuit Breaker





General

WCW1 series intelligent air circuit breakers (here in after called ACB) are applied for the network circuit of AC 50Hz, rated voltage 400V, 690V and rated current between 630A and 6300A. Mainly used for distributing energy and protecting the circuit and power supply device against short-circuit, undervoltage, single-phase ground fault, etc. The ACB has intelligent protection function and the key parts adopt intelligent release. The release can make the accurate selective protection, which can avoid cutting off the power and improve the reliability of power supply.

The products conform with IEC60947-1, IEC60947-2 standards.

Type designation

WCW1- 2000 / 3 + Installation + Control unit + Common use accessory + Optional accessory

Rated current in scope of frame current	Pole number	Installation	Control unit	Common use accessory	Optional accessory
2000 Type-In: 630A, 800A, 1000A, 1250A, 1600A, 2000A;	3-default 4-4 pole	Fixed type- horizontal, vertical Draw out type- horizontal, vertical Note: 2000 type have vertical wiring, others are horizontal wiring	L type- protection of overload long time-delay, short circuit short time-delay, short circuit instantaneous and function of current flash column instruction.	Shunt release- AC230V, AC400V, DC220V Undervoltage release- AC230V, AC400V, undervoltage instantaneous, undervoltage time-delay	Mechanical inter-lock: one circuit breaker (1 lock+1 key) two circuit breakers (steel cable inter-lock, connecting rod inter- lock, 2 locks+1 key) three circuit breakers (3 locks+2 keys, connecting rod inter lock)
3200 Type-In: 2000A, 2500A, 3200A;			M type- protection of overload long time-delay, short circuit short time-delay, short circuit instantaneous, earth fault and function of digital current display, and self- diagnosis, fault memory.	Release (close) magnetic iron-AC230V, AC400V, DC220V	Automatic power transfer system
6300 Type-In: 4000A, 5000A, 6300A;			H type- protection of overload long time-delay, short circuit short time-delay, short circuit instantaneous, earth fault and function of digital current display, and self-diagnosis, fault memory and load monitoring (communication)	Electric operation mechanism-AC230V, AC400V, DC110V, DC220V Auxiliary switch- standard type (4a4b), special type (5a5b, 6a6b) Note: a-normal open, b-normal close	Current transformer connected with neutral lead

Operation Conditions

Item	Description
Ambient temperature	-5℃~+40℃ (except special order products)
Altitude	≤2000m
Pollution grade	3
Safety category	Main circuit and undervoltage tripping coil is IV, other auxiliary and control circuit is III
Installation position	Vertical installed, tilt not exceed 5 degree
Environmental protection	Most of parts use recyclable and degradable materials
Isolating function	With isolating function

Data

Type			WCW1-2000	WCW1-3200	WCW1-6300
Pole			3P, 4P	3P, 4P	3P, 4P
Using category			B	B	B
Rated current In	A		630, 800, 1000, 1250, 1600, 2000	2000, 2500, 3000	4000, 5000, 6300
Rated frequency	AC	Hz	50	50	50
Rated operation voltage Ue	V		400, 690	400, 690	400, 690
Rated insulation voltage Ui	V		800	800	800
Arcing distance	mm		0	0	0
Rated impulse withstanding voltage Uimp	V		8000	8000	8000
Rated operation short circuit breaking capacity Ics (O-t-CO-t-CO)	400V	kA	50	80	100
	690V	kA	40	50	75
Rated limiting short circuit breaking capacity Icu (O-t-CO)	400V	kA	80	100	120
	690V	kA	50	65	85
Rated short circuit closing capacity Icm	400V	kA	176	220	264
	690V	kA	105	143	187
Rated short time withstanding current Icw (O-t-CO, AC400V 0.4S)	400V	kA	50	65	85
Operation life	Per hour	Times	20	20	10
	Electrical	Times	1000	500	500
	Mechanical	Times	10000	5000	5000
Full breaking time		ms	20~30	20~30	20~30
Full closing time		ms	55~70	55~70	55~70
Power consumption	3P	W	360	1200	2000
	4P	W	450	1750	2300
Resistance of each pole	Fixed type	μΩ	11	9	-
	Draw out type	μΩ	20	14	10
Dimensions (LxWxH)	3P fixed type	mm	362x323x402	422x323x402	
	3P draw out type	mm	375x461x452	435x471x452	
	4P fixed type	mm	457x323x402	537x323x402	
	4P draw out type	mm	470x461x452	550x471x452	
Approximate weight	3P fixed type	kg	41	55	
	3P draw out type	kg	71	95	245
	4P fixed type	kg	51.5	65	-
	4P draw out type	kg	86	115	260

Application

WCM1 series of moulded case circuit breaker is new type product developed and manufactured by adopting international advanced technology. It is supplied with rated insulation voltage 800V and used for circuit of AC 50Hz, rated operating voltage AC 400V or below rated operating current up to 800A for in frequent changing over and starting of the motors. Equipped with the protection devices for over-current, short circuit and under voltage, the product is capable of preventing damage of circuits and supply units. The product conforms to IEC60947-2 standard.

Specifications

Type	Rated current (A)	Number of Poles	Rated Insulation voltage (V)	Rated Operating voltage (V)	Arcing Over Distance (mm)	Ultimate short circuit breaking capacity (KA)	Service Short circuit breaking capacity (KA)	Operation performance	
								ON	OFF
WCM1-63L	6,10,16,20,25,32,40,50,63	3P, 4P	660V	380V	0	25	18	1500	8500
WCM1-63M					0	50	35		
WCM1-100C	10,16,20,25,32,40,50,63,80,100				0(≤50)	25	18		
WCM1-100L					0(≤50)	35	22		
WCM1-100M					0(≤50)	50	35		
WCM1-100H					0(≤50)	85	50		
WCM1-225C	100, 125				≤50	25	18	1000	7000
WCM1-225L	160, 180				≤50	35	22		
WCM1-225M	200,				≤50	50	35		
WCM1-225H					≤50	85	50		
WCM1-400C	225, 250				≤50	35	25	1000	4000
WCM1-400L	315, 350				≤50	50	35		
WCM1-400M	400				≤50	65	42		
WCM1-630C	400				≤100	35	25		
WCM1-630L	500				≤100	50	35		
WCM1-630M	630				≤100	65	42		
WCM1-630H					≤100	100	65		
WCM1-800M	630, 700				≤100	65	42		
WCM1-800H	800				≤100	100	65		
WCM1-1250H	630, 700, 800, 1000, 1250				≤100	65	42		
					≤100	100	65		

Accessories for WCM1



接触器系列 Contactor



使用范围 Application

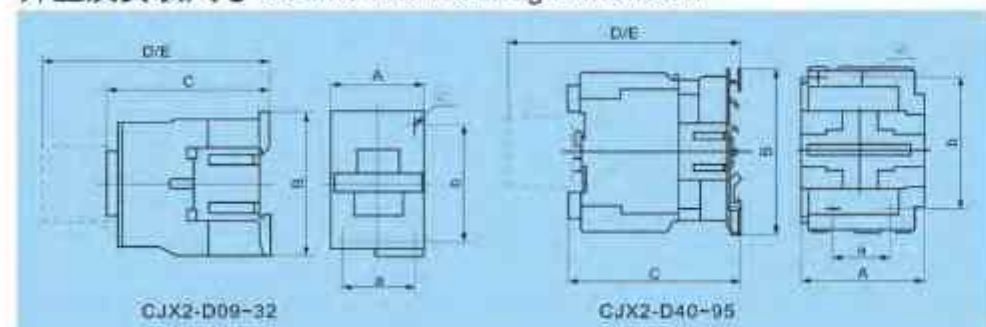
CJX2(NLC1)系列交流接触器(以下简称接触器)适用于交流50Hz或60Hz,电压至660V,电流至95A的电路中。供远距离接通与分断电路及频繁启动、控制交流电动机。接触器还可组装成积木式辅助触头组、空气延时头、机械联锁机构等部件,组成延时接触器、可逆接触器、星三角启动器,并且可以和热继电器直接插接安装组成电磁启动器。

CJX2(NLC1) series AC contactor (simplified as contactor in the following) is suitable for using in the circuits up to the rated voltage 660VAC 50Hz or 60Hz, rated current 95A, for making and breaking and frequent starting, controlling the AC motor. Combined with the auxiliary contact group, air delayer, machine interlocking device etc, it is combined into the delay contactor, mechanical interlocking contactor, stardelta starter, with the thermal relay, it is combined into the electromagnetic starter.

技术参数 Specification

型号Type		D09	D12	D18	D25	D32	D40	D50	D65	D80	D95
额定工作电流(A) Rated working current	AC3	9	12	18	25	32	40	50	65	80	95
	AC4	3.5	5	7.7	8.5	12	18.5	24	28	37	44
规格 Standard 额定功率 Power ratings of 3-phase motors 50/60Hz in 类型 category AC-3	220/230V	2.2	5	4	5.5	7.5	11	15	18.5	22	25
	380/400V	4	5.5	7.5	11	15	18.5	22	30	37	45
	415V	4	5.5	9	11	15	22	25	37	45	45
	500V	5.5	7.5	10	15	18.5	22	30	37	55	55
	660/690V	5.5	7.5	10	15	18.5	30	33	37	45	55
约定发热电流(A) Rated heat current		20	20	32	40	50	60	80	80	125	125
电寿命 Electrical life	AC3(x10 ⁴)	100	100	100	100	80	80	80	60	60	60
	AC4(x10 ⁴)	20	20	20	20	20	15	15	15	10	10
机械寿命 Mechanical life(x10 ⁴)		1000	1000	1000	800	800	800	800	800	600	600
触头数量 Number of the contacts		3P+NO					3P+NC+NO				
		3P+NC									

外型及安装尺寸 Outline and Mounting Dimension



型号Type	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
CJX2-D09-12	47	76	82	113	133	34/35	50/60	4.5																		
CJX2-D18	47	76	87	118	138	34/35	50/60	4.5																		
CJX2-D25	57	86	95	126	146	40	48	4.5																		
CJX2-D32	57	86	100	131	151	40	48	4.5																		
CJX2-D40-65	77	129	116	145	165	40	100/110	6.5																		
CJX2-D80-95	87	129	127	175	195	40	100/110	6.5																		

技术参数 Specification

型号 Type	额定工作 电流(A) Rated operating current AC-3(A)	最大额定功率 Max power ratings of 3-phase motors in category AC-3 (kW)							操作频率 Operating frequency (times/hour) AC-3	电寿命 Electrical life ($\times 10^4$) AC-3a20 ¹	机械寿命 Mechanical life($\times 10^4$)
		220V 230V	380V 400V	415V	440V	500V	660V 690V	1000V			
CJX2-F115	115	30	55	59	59	75	80	65	1200	120	1000
CJX2-F1154	115	30	55	59	59	75	80	65	1200	120	1000
CJX2-F150	150	40	75	80	80	90	100	65	1200	120	1000
CJX2-F1504	150	40	75	80	80	90	100	65	1200	120	1000
CJX2-F185	185	55	90	100	100	110	110	100	600	100	600
CJX2-F1854	185	55	90	100	100	110	100	100	600	100	600
CJX2-F225	225	63	110	110	110	180	129	100	600	100	600
CJX2-F2254	225	63	100	110	110	180	129	100	600	100	600
CJX2-F265	265	75	132	140	140	160	160	147	600	80	600
CJX2-F2654	265	75	132	140	140	160	160	147	600	80	600
CJX2-F330	330	100	160	180	200	200	220	160	600	80	600
CJX2-F3304	330	100	160	180	200	200	220	160	600	80	600
CJX2-F400	400	110	200	220	250	257	280	185	600	80	600
CJX2-F4004	400	110	200	220	250	257	280	185	600	80	600
CJX2-F500	500	147	250	280	295	355	335	335	600	80	600
CJX2-F5004	500	147	250	280	295	355	335	335	600	80	600
CJX2-F630	630	200	335	375	400	400	450	450	600	80	600
CJX2-F6304	630	200	335	375	400	400	450	450	600	80	600
CJX2-F780	780	220	400	425	425	450	475	40	600	80	600
CJX2-F7804	780	220	400	425	425	450	475	450	600	80	600
CJX2-F800	800	250	450	450	450	450	470	450	600	80	600

标准控制电器电压 Standard Control Circuit Voltage

电压V0R0	24	42	48	110	220	230	240	380	400	415	440	500	660
50Hz	B5	D5	E5	D5	M5	P5	U5	Q5	V5	N5	R5	S5	Y5
60Hz	B6	D6	E6	D6	M6	-	U6	Q6	-	-	R6	-	-
50/60Hz	B7	D7	E7	D7	M7	P7	U1	Q7	V7	N7	R7	-	-

使用范围 Application

NLC1-N系列交流接触器(以下简称接触器)适用于交流50Hz或60Hz,电压至660V,电流至95A的电路中,供远距离接通与分断电路及频繁启动、控制交流电动机。接触器还可组装成积木式辅助触头组、空气延时头、机械联锁机构等部件,组成延时接触器、可逆接触器、星三角启动器,并且可以和热继电器直接插接安装组成电磁启动器。

NLC1-N series AC contactor (simplified as contactor in the following) is suitable for using in the circuits up to the rated voltage 660VAC 50Hz or 60Hz, rated current 95A, for making and breaking and frequent starting, controlling the AC motor. Combined with the auxiliary contact group, air delay timer, machine interlocking device etc, it is combined into the delay contactor, mechanical interlocking contactor, star-delta starter, with the thermal relay, it is combined into the electromagnetic starter.

技术参数 Specification

型号Type		NLC1-N09	NLC1-N12	NLC1-N18	NLC1-N25	NLC1-N32
额定工作电流(A) Rated working current(A)	AC3	9	12	18	25	32
	AC4	3.5	5	7.7	8.5	12
规格 Standard 额定功率 power ratings of 3-phase motors 50/60Hz in 类型 category AC-3	220/230V	2.2	3	4	5.5	7.5
	380/40V	4	5.5	7.5	11	15
	415V	4	5.5	9	11	15
	500V	5.5	7.5	10	15	18.5
	660/690V	5.5	7.5	10	15	18.5
约定发热电流(A) Rated heat current		20	20	32	40	50
电寿命 Electrical life	AC3(x10 ⁴)	100	100	100	100	80
	AC4(x10 ⁴)	20	20	20	20	20
机械寿命 Mechanical life(x10 ⁴)		1000	1000	1000	1000	800
触头数量 Number of the contacts		3P+NO				
		3P+NC				

型号Type		NLC1-M40	NLC1-N63	NLC1-N80	NLC1-N95
额定工作电流(A) Rated working current	AC3	40	65	80	95
	AC4	18.5	28	37	44
规格 Standard 额定功率 power ratings of 3-phase motors 50/60Hz in 类型 category AC-3	220/230V	11	18.5	22	25
	380/40V	18.5	30	37	45
	415V	22	37	45	45
	500V	22	37	55	55
	660/690V	30	37	45	55
约定发热电流(A) Rated heat current		60	80	125	125
电寿命 Electrical life	AC3(x10 ⁴)	80	60	60	60
	AC4(x10 ⁴)	15	15	10	10
机械寿命 Mechanical life(x10 ⁴)		800	800	600	600
触头数量 Number of the contacts		3P+NC+NO			

标准控制电器电压 Standard Control Circuit Voltage

电压V0.05	24	42	48	110	220	230	240	380	400	415	440	500	680
50Hz	B5	D5	E5	D5	M5	P5	U5	Q5	V5	N5	R5	S5	Y5
60Hz	B6	D6	E6	D6	M6	-	U6	Q6	-	-	R6	-	-
50/60Hz	B7	D7	E7	D7	M7	P7	U7	Q7	V7	N7	R7	-	-

接触器
Contactor



+

辅助模块
Auxiliary Blocks



→

相关产品
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空气延时头
Delay Timer

延时接触器
Time-delay Contactor



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联锁机构
Mechanical Interlock

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Reversing Contactor



+



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热过载继电器
Thermal Relay

磁力启动器
Magnetic Starter



+



→



切换装置
Current-limited auxiliary block

切换电容器接触器
Change-over capacitor Contactor



+



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空气延时头
Delay Timer

辅助触头
Auxiliary block

星三角减压启动器
Star-delta starter

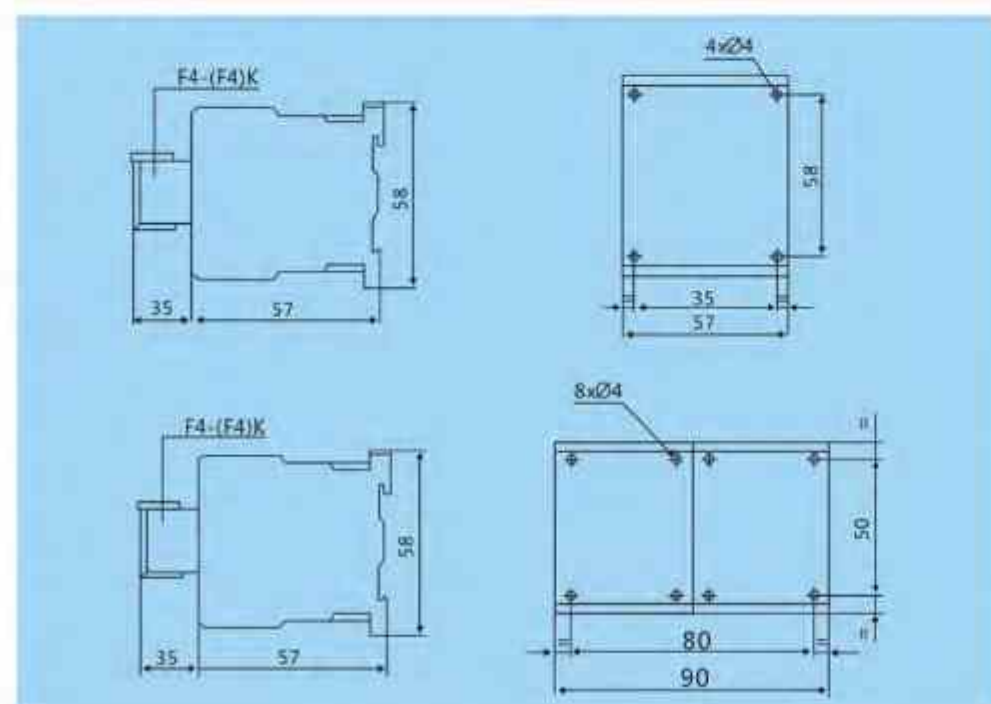
使用范围 Application

CJX2-K series AC contactor is suitable for use in the circuit up to the rate and frequent starting, controlling the AC motor. The addition of auxiliary contact group to the contactor, combined with the proper thermal relay, can act to protect the circuit bound to overload. It conforms to IEC60947-4-1.

技术参数 Specification

Type		CJX2-K06	CJX2-K09	CJX2-K12	
Rating working voltage(V)		660(690)			
Rating working current(A)	380V	AC-3	6	9	12
		AC-4	2.6	3.5	5
Appointed heating current(A)		16	20	20	
The max current when turn on(A)	380V	60	90	120	
	660V	72	108	144	
The max current for turn off(A)	380V	48	72	96	
	660V	60	90	120	
Three phases cage motors power which can be pulled AC3(kW)	220V	1.5	2.2	3	
	380V	2.2	4	5.5	
	660V	3	4	4	
Operation frequency (time/hour)	Electricity life(x10 ⁴)	AC-3	1200		
		AC-4	300		
Electrical life	AC-3	5×10 ⁶			
	AC-4	1×10 ⁵			
Mechanical life		3×10 ⁶			

外型及安装尺寸 Outline and Mounting Dimension



使用范围 Application

本系列产品为交流50Hz或60Hz, 额定绝缘电压为690-1000V, 在AC-3使用类别下额定工作电压为690V时的额定工作电流9-400A, 主要供远距离接通及分断电路之用, 适用于交流电动机的启动、停止及反转。

The series products are suitable for frequency of 50/60Hz, rated insulation voltage up to 690-1000V, rated operational current up to 9A-400A at rated operational voltage up to 380V under the utilization category AC-3, are mainly used for making and breaking electric circuits at a long distance and for frequent starting, stopping and reversing control of AC motors.

技术参数 Specification

型号Type	AC	WGMC-9	WGMC-12	WGMC-18	WGMC-22	WGMC-32
	DC	WGMD-9	WGMD-12	WGMD-18	WGMD-22	WGMD-32
交流电性能 1AC capability		20A	20A	25A	32A	50A
交流电性能3 Rated heat current	200~240V	2.5kW 11A	3.5kW 13A	4.5kW 18A	5.5kW 22A	7.5kW 32A
	380~440V	4kW 9A	5.5kW 12A	7.5kW 18A	11kW 22A	15kW 32A
	500~550V	4kW 7A	7.5kW 12A	7.5kW 13A	15kW 22A	18.5kW 28A
	690V	4kW 5A	7.5kW 9A	7.5kW 9A	15kW 18A	18.5kW 20A
约定发热电流 Conventional thermal current		20A	25A	30A	32A	45A
交流电动机 AC motor	单相 Single phase	115V	0.5HP	0.5HP	1HP	2HP
		230V	1HP	2HP	3HP	5HP
	三相 Three phase	200V	2HP	3HP	5HP	7.5HP
		230V	3HP	3HP	5HP	10HP
		460V	2HP	7.5HP	10HP	20HP
		575V	5HP	10HP	15HP	20HP

型号Type	AC	WGMC-40	WGMC-50	WGMC-65	WGMC-75	WGMC-85
	DC	WGMD-40	WGMD-50	WGMD-65	WGMD-75	WGMD-85
交流电性能 1AC capability		60A	80A	100A	110A	135A
交流电性能3 Rated heat current	200~240V	11kW 40A	15kW 55A	18.5kW 65A	22kW 75A	25kW 85A
	380~440V	18.5kW 40A	22kW 50A	30kW 65A	37kW 75A	45kW 85A
	500~550V	22kW 32A	30kW 43A	37kW 60A	45kW 64A	45kW 75A
	690V	22kW 25A	30kW 33A	37kW 47A	45kW 47A	45kW 52A
约定发热电流 Conventional thermal current		50A	70A	80A	90A	100A
交流电动机 AC motor	单相 Single phase	115V	3HP	3HP	5HP	5HP
		230V	5HP	7.5HP	10HP	15HP
	三相 Three phase	200V	10HP	10HP	15HP	20HP
		230V	10HP	15HP	20HP	25HP
		460V	25HP	30HP	40HP	50HP
		575V	25HP	30HP	40HP	50HP