泰格运控有限公司

Tiger Motion Control Co.,Ltd

伺服驱动选型样本

Sample selection for servo drive

传动世界，直驱未来

Transmission World, Direct Drive Future

正心明德　　臻于至善

Rectifying the mind and pursuing pleasant virtue　　striving for continuous improvement

Website:http://www.tiger-motion.com (Official website is under maintenance)

卓越性能 尽在掌握

EXcellent Performance Be in control

泰格旋转伺服系统

Tiger rotary servo system

1.采用“easy to use”的设计理念，采用欧洲先进的底层算法平台具有自适应滤波、振动抑制、摩擦补偿、模型跟踪等多种高级功能支持模拟量、脉冲序列、ECAT总线等多种指令控制方式在半导体、3C、包装、激光、印刷、纺织等多个行业提供有效的解决方案.

Adopting the design concept of "easy to use" and utilizing advanced European underlying algorithm platforms with advanced functions such as adaptive filtering, vibration suppression, friction compensation, and model tracking, it supports various command control methods such as analog signals, pulse sequences, and ECAT bus, providing effective solutions in multiple industries such as semiconductor, 3C, packaging, laser, printing, and textile

2.速度环带宽可达3.5kHz

The speed loop bandwidth can reach 3.5kH

3.功率范围覆盖到50W~7500W

Power range covers 50W~7500W



速度频率响应3.5kHZ
Speed frequency response 3.5kHz

应用举例:在半导体行业固晶、测试分选等应用中，有效提升了机构的动态响应，缩短了工作周期。在金属加工等应用中，有效增强了电机的速度平稳性、改善了加工面的光滑度.

Examples of applications: In the semiconductor industry, such as crystal solidification and testing sorting, have effectively improved the dynamic response of institutions and shortened work cycles. In applications such as metal processing, it effectively enhances the speed stability of the motor and improves the smoothness of the machining surface



自适应滤波器&振动抑制
Adaptive Filter&Vibration Suppression

功能描述

伺服可自动根据机械负载的振动情况，识别系统的振动频率成分，并可对多组几十~几千赫兹频率的振动进行抑制。

Function Description

Servo can automatically identify the vibration frequency components of the system based on the vibration situation of mechanical loads, and can suppress multiple groups of vibrations with frequencies ranging from tens to thousands of hertz.

应用举例

在工业机器人、机械手等应用中，有效抑制了吊臂前端或设备主体的残余振动，大大减少了定位完成时间。

Application examples

In applications such as industrial robots and robotic arms, residual vibration of the front end of the boom or the main body of the equipment is effectively suppressed, greatly reducing the completion time of positioning.

未使用振动抑制功能

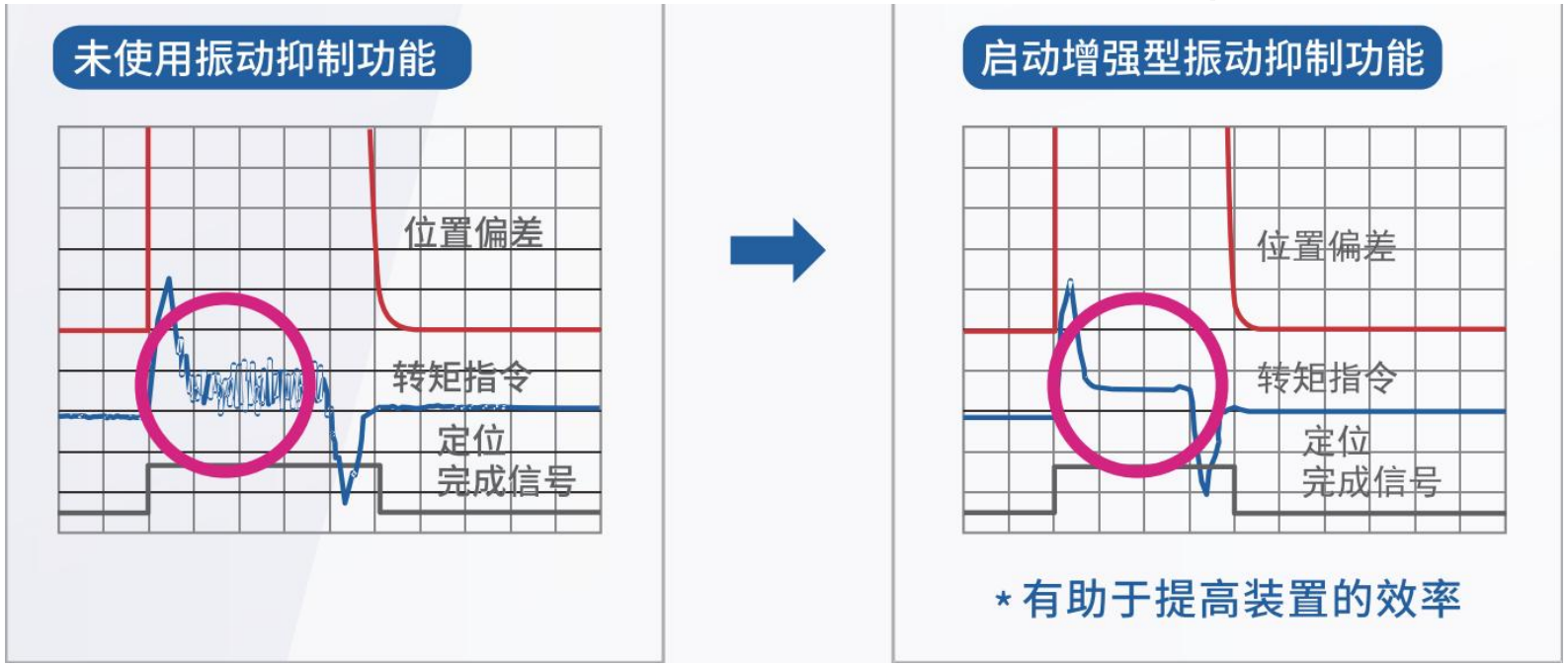
Not using vibration suppression function

启动增强型振动和抑制功能

Activate enhanced vibration and suppression functions

有助于提供装置的效率

Helps improve the efficiency of the device



旋转伺服驱动器命名规则
Naming rules for rotary servo drives



代号	描述
EAS	伺服驱动器

代号	描述
R1	通用型旋转伺服-17位
R3	高性能旋转伺服-23位

代号	描述
P	脉冲型
N	EtherCAT总线

代号	描述
缺省	标准软件
01	01#非标软件
02	02#非标软件
.....	.....

代号	描述
缺省	标准硬件
B	硬件非标

代号	输入电源	描述	额定功率
A1R1	单相220V	1.1A	100W
A1R6		1.6A	200W
A2R8		2.8A	400W
A5R5		5.5A	750W
C7R6	三相220V	7.6A	1000W
C012		12A	1500W
T3R5	三相380V	3.5A	1000W
T5R4		5.4A	1500W
T8R4		8.4A	2000W
T012		12A	3000W
T017		17A	4400W
T021		21A	5500W
T026		26A	7500W

旋转伺服电气规格 Rotating servo electrical specifications

驱动器型号EAS-**-*□□□□-*** drive type	A1R1	A1R6	A2R8	A5R5	C7R6	C012
连续输出电流(Arms) Continuous Output Current	1.1	1.6	2.8	5.5	7.6	12.0
最大输出电流(Arms) max output current	3.9	5.9	10.1	16.9	23.0	28.0
输入电源电压规格 Input current and voltage specifications	单相AC200V-240V，-10%～10%，50/60Hz				三相AC200V-240V，-10%～10%，50/60Hz	
额定功率(W) rated power	100	200	400	750	1000	1500
制动处理功能 Brake processing function	制动电阻外接 External connection of braking resistor				制动电阻内置 Built in braking resistor	
内置制动电阻阻值(Ω) Built in braking resistor resistance value	—	—	—	50	25	25
内置制动电阻容量(W) Built in braking resistor capacity	—	—	—	50	80	80
外置制动电阻最小阻值(Ω) Minimum resistance value of external braking resistor	40	40	40	40	20	15
安装尺寸 Installation dimensions	SIZE-A	SIZE-A	SIZE-A	SIZE-B	SIZE-D	SIZE-D

旋转伺服电气规格 Rotating servo electrical specifications

驱动器型号EAS-**-*□□□□-*** drive type	T3R5	T5R4	T8R4	T012	T017	T021	T026
连续输出电流(Arms) Continuous Output Current	3.5	5.4	8.4	12	17.0	21.0	26.0
最大输出电流(Arms) max output current	8.5	14.0	20.0	24.0	42.5	52.5	65.0
输入电源电压规格 Input current and voltage specifications	三相AC380V-440V，-10%～10%,50/60Hz						
额定功率(W) rated power	1000	1500	2000	3000	4400	5500	7500
制动处理功能 Brake processing function	制动电阻内置 Built in braking resistor						
内置制动电阻阻值(Ω) Built in braking resistor resistance value	100	100	50	50	35	35	35
内置制动电阻容量(W) Built in braking resistor capacity	80	80	80	80	100	100	100
外置制动电阻最小阻值(Ω) Minimum resistance value of external braking resistor	80	60	45	40	35	25	25
安装尺寸 Installation dimensions	SIZE-D	SIZE-D	SIZE-D	SIZE-D	SIZE-E	SIZE-E	SIZE-E

旋转伺服型号型 Rotating servo model

型号 model	备注
EAS-R1-PA1R1	100W-通用脉冲伺服驱动器 100W-Universal pulse servo drive
EAS-R1-PA1R6	200W-通用脉冲伺服驱动器 200W-Universal pulse servo drive
EAS-R1-PA2R8	400W-通用脉冲伺服驱动器 400W-Universal pulse servo drive
EAS-R1-PA5R5	750W-通用脉冲伺服驱动器 750W-Universal pulse servo drive
EAS-R1-PA5R5-B01	1000W-通用脉冲伺服驱动器 1000W-Universal pulse servo drive
EAS-R1-PC7R6	1000W-通用脉冲伺服驱动器 1000W-Universal pulse servo drive
EAS-R1-PC012	1500W-通用脉冲伺服驱动器 1500W- Universal pulse servo drive
EAS-R1-PT3R5	1000W-通用脉冲伺服驱动器 1000W-Universal pulse servo drive
EAS-R1-PT5R4	1500W-通用脉冲伺服驱动器 1500W- Universal pulse servo drive
EAS-R1-PT8R4	2000W-通用脉冲伺服驱动器 2000W-Universal pulse servo drive
EAS-R1-PT012	3000W-通用脉冲伺服驱动器 3000W-Universal pulse servo drive
EAS-R1-PT017	4400W-通用脉冲伺服驱动器 4400W-Universal pulse servo drive
EAS-R1-PT021	5500W-通用脉冲伺服驱动器 5500W-Universal pulse servo drive
EAS-R1-PT026	7500W-通用脉冲伺服驱动器 7500W-Universal pulse servo drive

备注： remark

1. EAS-R1-***** 支持17位磁性编码器电机

Support 17 bit magnetic encoder motor

旋转伺服型号型 Rotating servo model

EAS-R1-NA1R1	100W-通用ECAT总线伺服驱动器 100W-Universal ECAT bus servo drive
EAS-R1-NA1R6	200W-通用ECAT总线伺服驱动器 200W-Universal ECAT bus servo drive
EAS-R1-NA2R8	400W-通用ECAT总线伺服驱动器 400W-Universal ECAT bus servo drive
EAS-R1-NA5R5	750W-通用ECAT总线伺服驱动器 750W-Universal ECAT bus servo drive
EAS-R1-NA5R5-B01	1000W-通用ECAT总线伺服驱动器 1000W-Universal ECAT bus servo drive
EAS-R1-NC7R6	1000W-通用ECAT总线伺服驱动器 1000W-Universal ECAT bus servo drive
EAS-R1-NC012	1500W-通用ECAT总线伺服驱动器 1500W-Universal ECAT bus servo drive
EAS-R1-NT3R5	1000W-通用ECAT总线伺服驱动器 1000W-Universal ECAT bus servo drive
EAS-R1-NT5R4	1500W-通用ECAT总线伺服驱动器 1500W-Universal ECAT bus servo drive
EAS-R1-NT8R4	2000W-通用ECAT总线伺服驱动器 2000W-Universal ECAT bus servo drive
EAS-R1-NT012	3000W-通用ECAT总线伺服驱动器 3000W-Universal ECAT bus servo drive
EAS-R1-NT017*	4400W-通用ECAT总线伺服驱动器 4400W-Universal ECAT bus servo drive
EAS-R1-NT021*	5500W-通用ECAT总线伺服驱动器 5500W-Universal ECAT bus servo drive
EAS-R1-NT026*	7500W-通用ECAT总线伺服驱动器 7500W-Universal ECAT bus servo drive

备注： remark

1. EAS-R1-***** 支持17位磁性编码器电机

Support 17 bit magnetic encoder motor

旋转伺服型号型 Rotating servo model

型号	备注
EAS-R3-PA1R1	100W-高性能脉冲伺服驱动器 100W - High performance pulse servo driver
EAS-R3-PA1R6	200W-高性能脉冲伺服驱动器 200W - High performance pulse servo driver
EAS-R3-PA2R8	400W-高性能脉冲伺服驱动器 400W - High performance pulse servo driver
EAS-R3-PA5R5	750W-高性能脉冲伺服驱动器 750W - High performance pulse servo driver
EAS-R3-PA5R5-B01	1000W-高性能脉冲伺服驱动器 1000W - High performance pulse servo driver
EAS-R3-PC7R6	1000W-高性能脉冲伺服驱动器 1000W - High performance pulse servo driver
EAS-R3-PC012	1500W-高性能脉冲伺服驱动器 1500W - High performance pulse servo driver
EAS-R3-PT3R5	1000W-高性能脉冲伺服驱动器 1000W - High performance pulse servo driver
EAS-R3-PT5R4	1500W-高性能脉冲伺服驱动器 1500W - High performance pulse servo driver
EAS-R3-PT8R4	2000W-高性能脉冲伺服驱动器 2000W - High performance pulse servo driver
EAS-R3-PT012	3000W-高性能脉冲伺服驱动器 3000W - High performance pulse servo driver
EAS-R3-PT017	4400W-高性能脉冲伺服驱动器 4400W - High performance pulse servo driver
EAS-R3-PT021	5500W-高性能脉冲伺服驱动器 5500W - High performance pulse servo driver
EAS-R3-PT026	7500W-高性能脉冲伺服驱动器 7500W - High performance pulse servo driver

备注： remark

1. EAS-R3-***** 支持23位光学编码器电机

Supports 23 bit optical encoder motor

旋转伺服型号型 Rotating servo model

EAS-R3-NA1R1	100W-高性能ECAT总线伺服驱动器 100W - High performance ECAT bus servo driver
EAS-R3-NA1R6	200W-高性能ECAT总线伺服驱动器 200W - High performance ECAT bus servo driver
EAS-R3-NA2R8	400W-高性能ECAT总线伺服驱动器 400W - High performance ECAT bus servo driver
EAS-R3-NA5R5	750W-高性能ECAT总线伺服驱动器 750W - High performance ECAT bus servo driver
EAS-R3-NA5R5-B01	1000W-高性能ECAT总线伺服驱动器 1000W - High performance ECAT bus servo driver
EAS-R3-NC7R6	1000W-高性能ECAT总线伺服驱动器 1000W - High performance ECAT bus servo driver
EAS-R3-NC012	1500W-高性能ECAT总线伺服驱动器 1500W - High performance ECAT bus servo driver
EAS-R3-NT3R5	1000W-高性能ECAT总线伺服驱动器 1000W - High performance ECAT bus servo driver
EAS-R3-NT5R4	1500W-高性能ECAT总线伺服驱动器 1500W - High performance ECAT bus servo driver
EAS-R3-NT8R4	2000W-高性能ECAT总线伺服驱动器 2000W - High performance ECAT bus servo driver
EAS-R3-NT012	3000W-高性能ECAT总线伺服驱动器 3000W - High performance ECAT bus servo driver
EAS-R3-NT017*	4400W-高性能ECAT总线伺服驱动器 4400W - High performance ECAT bus servo driver
EAS-R3-NT021*	5500W-高性能ECAT总线伺服驱动器 5500W - High performance ECAT bus servo driver
EAS-R3-NT026*	7500W-高性能ECAT总线伺服驱动器 7500W - High performance ECAT bus servo driver

备注： remark

1. EAS-R3-***** 支持23位光学编码器电机

Supports 23 bit optical encoder motor

驱动器和电机匹配表
Driver and motor matching table

法兰尺寸 Flange size	功率（W）Rated power	电机型号 Motor model	驱动器 Drive
040	50	SM040R05x30xxLZSxE	EAS-R*-*A1R1
040	100	SM040R10x30xxLZSxE	EAS-R*-*A1R1
060	200	SM060R20x30xxHFBxE	EAS-R*-*A1R6
060	400	SM060R40x30xxHFBxE	EAS-R*-*A2R8
080	750	SM080R75x30xxHFBxE	EAS-R*-*A5R5
080	1000	SM0801R0x30xxHFBxE	EAS-R*-*A5R5-B01
130	850	SM130R85x15xxMFBxE	EAS-R*-*C7R6
130	850	SM130R85x15xxMFBxE	EAS-R*-*T5R4
130	1300	SM1301R3x15xxMFBxE	EAS-R*-*C012
130	1300	SM1301R3x15xxMFBxE	EAS-R*-*T5R4
130	1800	SM1301R8x15xxMFBxE	EAS-R*-*C012
130	1800	SM1301R8x15xxMFBxE	EAS-R*-*T8R4
180	2900	SM1802R9x15xxHFBxE	EAS-R*-*T012
180	4400	SM1804R4x15xxHFBxE	EAS-R*-*T017
180	5500	SM1805R5x15xxHFBxE	EAS-R*-*T021
180	7500	SM1807R5x15xxHFBxE	EAS-R*-*T026

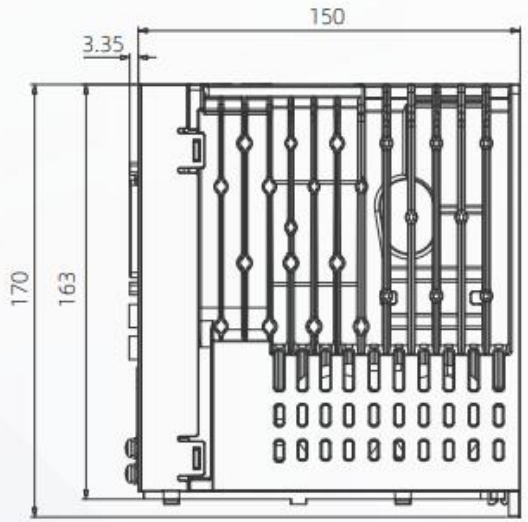
伺服驱动尺寸图 Servo drive dimension diagram

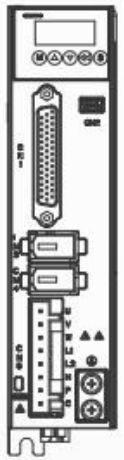
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SIZE-A



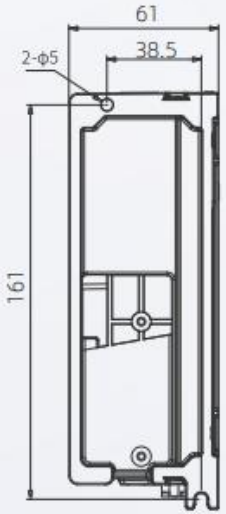


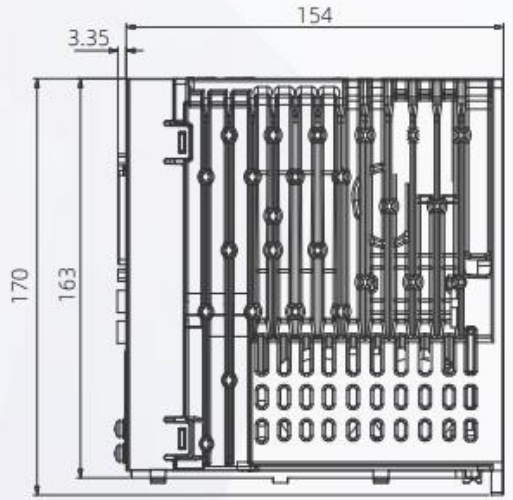


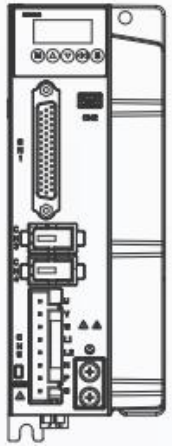


SIZE-B









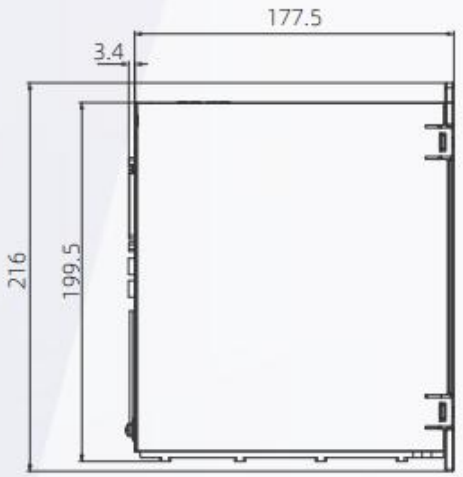
伺服驱动尺寸图 Servo drive dimension diagram

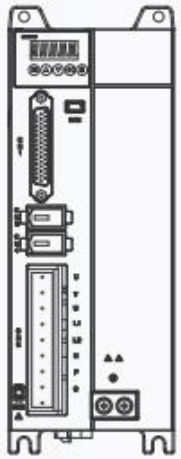
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SIZE-D





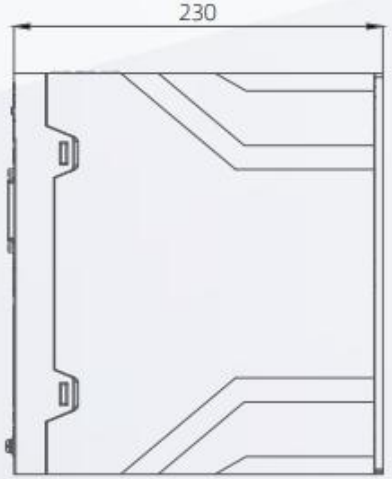


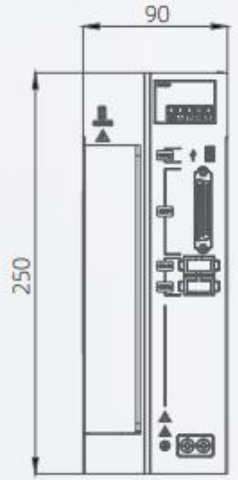


SIZE-E









泰格运控

Tiger motion control

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