Parker Servo Systems P Series Low Voltage Drive



The new addition to the Parker P Series servo family is a low voltage version that packs impressive functionalty and performance in a small form factor.

The P-Series drives operate with a variety of machine control architectures and offer sophisticated servo capability. A number of different feedback types are supported to drive a wide range of linear and rotary servo motors. The low voltage P Series drive can be configured for step and direction control input and includes analog inputs for torque or velocity control. Select Indexer mode to create up to 64 position table entries triggered via inputs or over a RS422 interface.

For high speed, real-time network applications, the P-Series also includes EtherCAT, the fastest growing, most flexible industrial Ethernet protocol. Ideal for use with the Parker Automation Controller, the P-Series also follows the open standards for EtherCAT.

Accurate and easy to use inertia detection leads to fast set-up of tuning parameters and minimal settling time. Advanced filtering and vibration suppression features can be used to increase throughput and improve positioning performance.

Contact Information:

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ENGINEERING YOUR SUCCESS.

P Series Servo Drive

Drive Specifications

Motor Output Power		PD-L03M	PD-L06M				
Drive Output Power							
	Continuous Current (RMS)	3.0 Amps	6.0 Amps				
	Peak Current (RMS)	9.0 Amps	18.0 Amps				
Drive	Input Voltage	20-80VDC					
Drive Control Voltage		24VDC					
Performance							
	Servo update	62.5µs					
	Accuracy	± 1 encoder count ; encoder dependent					
	Commutation	Sinusoidal					
Contr	ol						
	Indexer Function	64 user defined profiles, relative/absolute moves, registration, sequences and I/O selection					
	Position Control	Step and direct	ction, CW and CCW				
	Speed Control	+/- 10'	<i>I</i> , 1:5000				
	Torque Control	+/·	- 10V				
EtherCAT							
	Supported Protocols	CoE, I	EoE, FoE				
	Drive Modes	Position Profile, Profile Interpolated F Cvclic Synchronous Po	Position Profile, Profile Velocity, Profile Torque, Interpolated Position, Homing Cyclic Synchronous Position, Velocity and Torque				
	Minimum Cycle Time	25	250us				
Feedback							
	Encoder Input (A)	Quadrature Incremental encod EnDAT 2.2,	Irature Incremental encoder (with or without halls), BiSS-C, EnDAT 2.2, SSI, Hiperface				
	Encoder Input (B)	Quadrature Incremental en EnDAT 2.2, SSI, Hiperface, Sinus	Ital encoder (without halls), BiSS-C, Sinusoidal(analog hall), Resolver (option)				
I/O							
	Digital input	4-channel, +24V commo	n, user selectable functions				
	Digital output	4-channel, Differential (Isola	ated), user selectable functions				
	Analog input	2-channel, ±1	0V (max.), 12bits				
	Analog output	2-channel, ±10V (m	max.), selectable, 12bits				
	Safety	Safe Torque Off (STO) IEC61508-5-2 EN ISO13849, PL d, SIL2, Category3					
Communications							
	USB	USB 2.0 for firmware upload and drive configuration					
	Configuration Software	Drive Support Tool					
Standards		CE (EMC, LVD) , RoHS					

P Series Ordering Information

Select an option from each numbered field to create a complete model order code.

Drive			1		2	3				
	Order Exam	ple:		ΡD	-	L03	М	Е		
	1		2		3					
	Series		Frame Size		Interface			Feedback		
	PD		13 - VDC, 3 amps 16 - VDC, 6 amps	M - Multi	M - Multi Mode (VDC models only)			E - Encoder, serial R - Resolver		