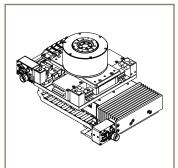


aerospace climate control electromechanical filtration fluid & gas handling hydraulics pneumatics process control sealing & shielding





Parker P series Direct Drive Rotary Motors



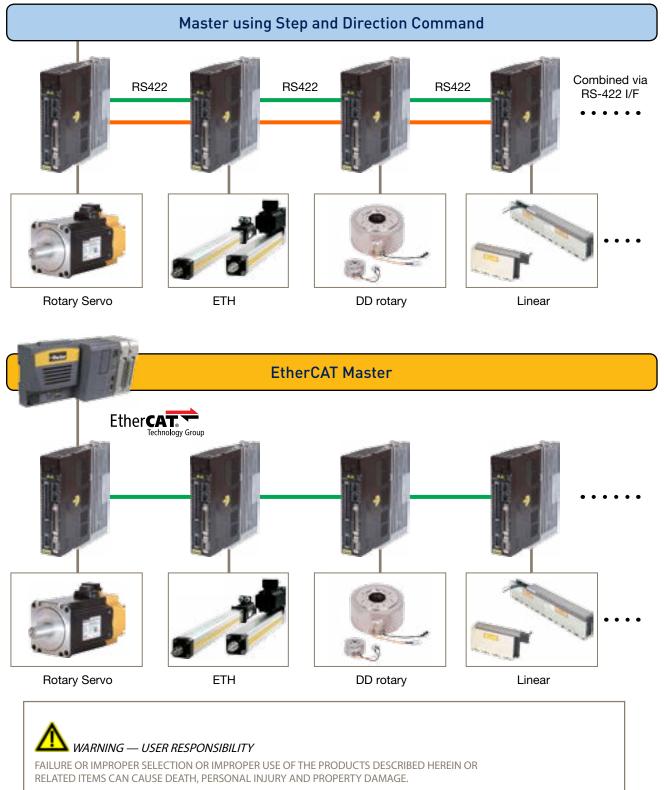
天津昕科佳业科技有限公司

地址:天津市红桥区咸阳北路开源楼32-409 电话:022-86559825 网址:www.xinkejiaye.com





ENGINEERING YOUR SUCCESS.



- This document and other information from Parker-Hannifin Corporation, its subsidiaries and authorized distributors provide product or system options for further investigation by users having technical expertise.
- The user, through its own analysis and testing, is solely responsible for making the final selection of the system
 and components and assuring that all performance, endurance, maintenance, safety and warning requirements of
 the application are met. The user must analyze all aspects of the application, follow applicable industry standards,
 and follow the information concerning the product in the current product catalog and in any other materials
 provided from Parker or its subsidiaries or authorized distributors.
- To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the components or systems.

Powerful Direct Drive Motors

Easy configuration

• once the motor is connected to P series drive it will automatically recognize the motor

Various control option

- Predefined Profile mode provides ideal indexing feature for your machine
- EtherCAT gives high speed communication for multi-axis solutions

SERVO DRIVE

Ideal direct drive solution for P series drive

- 100~400W : PD-04P & 04C
- 400~1kW : PD-10P & 10C
- 1kW~3.5kW : PD-35P & 35C



WINDING Optimized winging structure

MAGNET

High torque density by using highest class rated Neodymium permanent magnet

BEARING

Low vibration and outstanding mechanical accuracy by improved bearing design

ENCODER

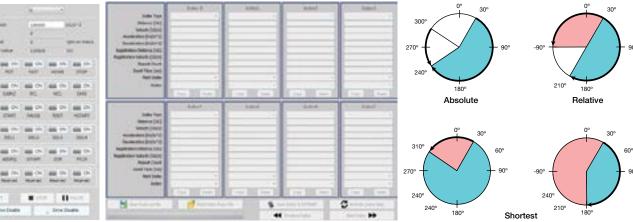
High resolution absolute feedback as standard (20 bit BiSS-C)

FRAME

5 frame size - 135mm/175mm/230mm/290mm/360mm various height is available as custom option Rated speed : 200RPM / 150RPM

Pre-defined profile function with Parker Drive

Available 64 profiles

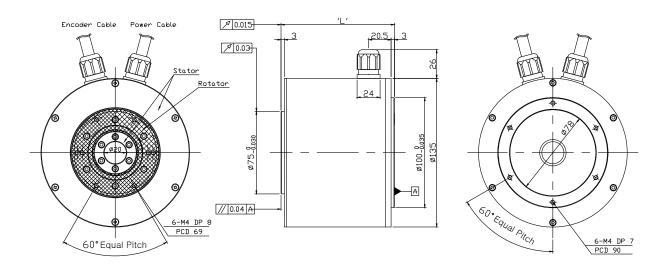


- Rotary Absolute/Relative/Shortest move

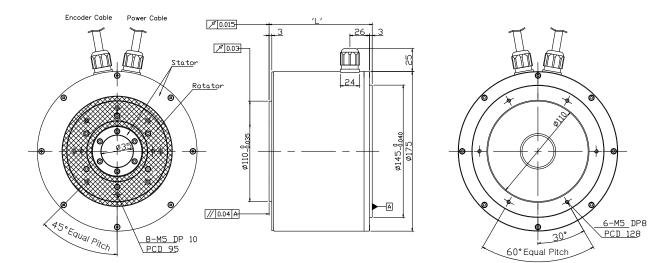
Basic specification

Motor		PM-DDB D H		PM-DDC DH			PM-DDDD.H			PM- DDE D H		PM- DDF==G=H		
		03	06	09	06	12	18	12	22	34	40	60	A1	A6
P series Drive		PD-04	PD-04	PD-04	PD-04	PD-04	PD-04	PD-04	PD-10	PD-10	PD-10	PD-35	PD-35	PD-35
Diameter	mm	ø135		ø175		ø230		ø290		ø360				
Rated Power	W	63	126	188	126	251	377	251	461	712	838	1,257	1,728	2,513
Rated Torque	N-m	3	6	9	6	12	18	12	22	34	40	60	110	160
Peak Torque	N-m	9	18	27	18	36	54	36	66	102	120	180	330	480
Rated Current	Arms	1.12	1.46	2.63	1.48	2.41	3	2.58	3.33	5.72	5.3	8.33	9.48	14.6
Peak Current	Arms	3.36	4.38	7.89	4.44	7.23	9	7.74	9.99	17.16	15.9	24.99	28.44	43.8
Rated Velocity	rpm		200			200		200		200		150		
Max. Velocity	rpm	500	500	500	500	500	400	500	400	400	300	300	250	250
Torque Constant	N-m/ Arms	2.76	4.25	3.57	4.18	5.13	6.12	4.8	6.81	6.13	7.77	7.42	11.95	11.29
Moment of Inertia	kg -m²x10 ⁻⁴	5.74	8.67	11.5	27.32	38.9	50.48	54.14	68.15	82.16	311.55	371.71	1410.2	1763.4
Power Rate	kW/s	15.68	42.35	70.43	13.18	52.71	118.59	26.6	71.02	140.7	51.36	96.68	85.9	145.4
Angular Accel	rad/s ²	191.2	141.6	127.7	455.03	323.9	280.3	450.9	309.6	241.5	778.35	619.1	1281.13	1101.4
Accuracy for ABS Position	arc- sec		±30											
Accuracy for Repeatability	arc- sec							±1.3						
Axial run-out	mm							0.015						
Radial run-out	mm							0.03						
Allow. thrust load	N	1500			3300		4000		11000		15000			
Allow. moment load	N-m	40 70			93		250		350					
Encoder					20-bi	t single t	urn seria	l encode	r (BiSS-	C / Abso	olute)			
Weight(Approx.)	kg	6.3	7.2	9.2	8.7	10.6	12.6	17.3	19.6	21.9	28.2	35	54	70.3

Dimensions

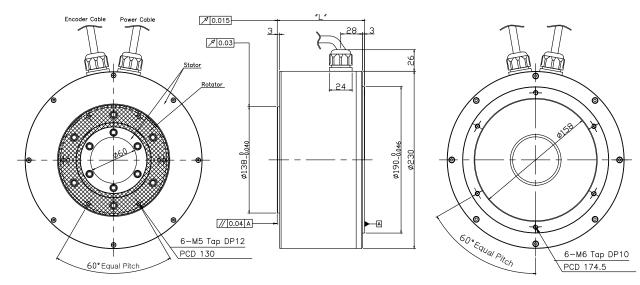


	Size B	
Product	Length (mm) 'L'	Weight (Kg)
PM-DD B03D	78	6.3
PM-DD B06D	100	7.2
PM-DD B09D	124	9.2

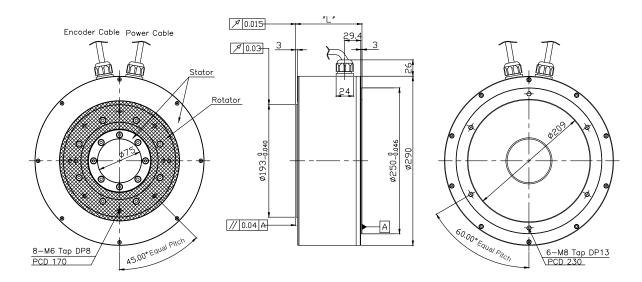


Size C							
Product	Length (mm) 'L'	Weight (Kg)					
PM-DD C06D	77	8.7					
PM-DD C12D	95	10.6					
PM-DD C18D	113	12.6					

Dimensions

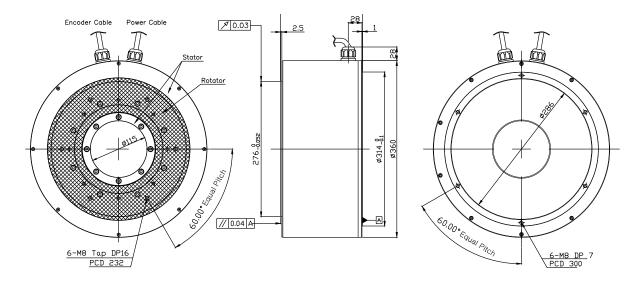


	Size D						
Product	Length (mm) 'L'	Weight (Kg)					
PM-DD D12D	82.5	17.3					
PM-DD D22D	100.5	19.6					
PM-DD D34D	118.5	21.9					



Size E						
Product	Length (mm) 'L'	Weight (Kg)				
PM-DD E40D	95.4	28.2				
PM-DD E60D	113.4	35				

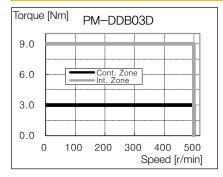
Dimensions

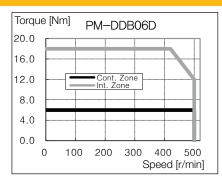


	Size F	
Product	Length (mm) 'L'	Weight (Kg)
PM-DD FA1G	131	54
PM-DD FA6G	167	70.3

N-T curve

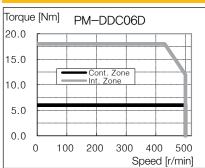
Size B

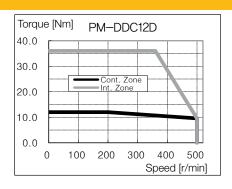


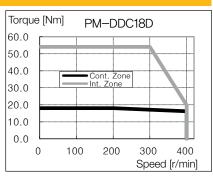


Torque [Nm]		n]	PM-DDB09D						
30.0	Γ						-		
25.0									
20.0		1-	— Co	ont.	Zone				
15.0			Int	t. Zo	one				
10.0								_	
5.0									
0.0								U	
	0	100) 20	0	300		400 beed	500 [r/min]

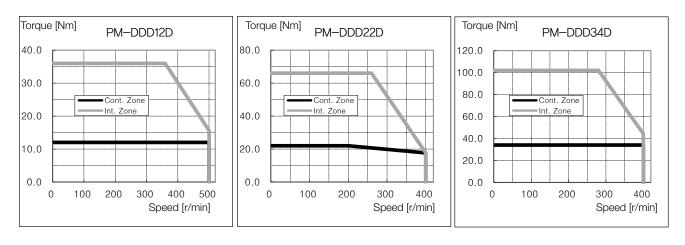
Size C



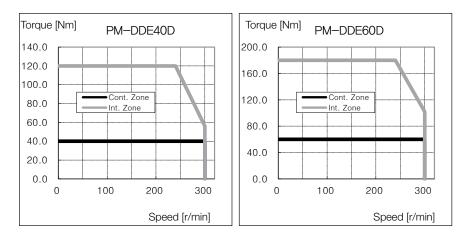




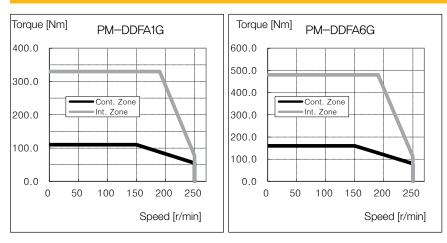
Size D



Size E

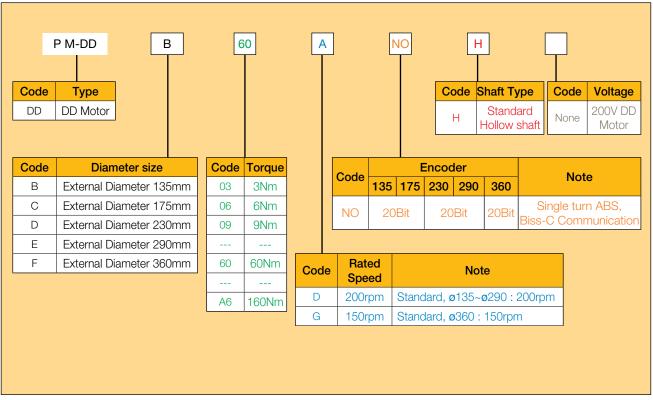


Size F

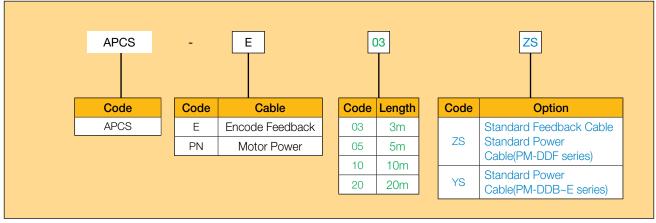


Ordering Code

Motor



Cable



Parker

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Aerospace Kev Markets

Aftermarket services Commercial transports Engines General & business aviation Helicopters Launch vehicles Military aircraft Missiles Power generation Regional transports Unmanned aerial vehicles

Key Products

Control systems & actuation products Engine systems & components Fluid conveyance systems & components Fluid metering, delivery & atomization devices Fuel systems & components Fuel tank inerting systems A components Thermal management Wheels & brakes



Climate Control

Key Markets Agriculture Air conditioning Construction Machinery Food & beverage Industrial machinery Life sciences Oi & gas Precision cooling Process Refrigeration Transportation

Key Products

Accumulators Advanced actuators CO₂ controls Electronic controllers Filter driers Hand shut-off valves Heat exchangers Hose & fittings Pressure regulating valves Refrigerant distributors Safety relief valves Smart pumps Solenoid valves Thermostatic expansion valves



Electromechanical Key Markets

Aerospace Factory automation Life science & medical Machine tools Packaging machinery Paper machinery Plastics machinery & converting Primary metals Semiconductor & electronics Textile Wire & cable

Key Products

AC/DC drives & systems Electric actuators, gantry robots & sides Electorhydrotsatic actuation systems Electromechanical actuation systems Human machine interface Linear motors Stepper motors, servo motors, drives & controls Structural extrusions



Filtration Key Markets

Aerospace Food & beverage Industrial plant & equipment Life sciences Marine Mobile equipment Oil & gas Power generation & renewable energy Process Transportation Water Purflication

Key Products

Analytical gas generators Compressed air filters & dryers Engine air, coolant, fuel & oil filtration systems Fluid condition monitoring systems Hydrogen, nitrogen & zero air generators Instrumentation filters Membrane & fiber filters Microfiltration Sterlie air filtration Water desalination & purification filters & systems



Sealing & Shielding Key Markets

Aerospace Chemical processing Consumer Fluid power General industrial Information technology Life sciences Microelectronics Military Oil & gas Power generation Renewable energy Telecommunications

Key Products

Dynamic seals Eastomeric o-rings Electro-medical instrument design & assembly EMI shielding Extruded & precision-cut, fabricated elastomeric seals Homogeneous & inserted elastomeric shapes Medical device fabrication & assembly Metal & plastic retained composite seals Shielded optical windows Silicone tubing & extrusions Thermal management Vibration dampening



Fluid & Gas Handling

Key Markets Aerial lift Agriculture Bulk chemical handling Construction machinery Food & beverage Fuel & gas delivery Industrial machinery Life sciences Marine Mining Mobile Oll & gas Renewable energy Transportation

Key Products

Check valves Connectors for low pressure fluid conveyance Deep sea umbilicals Diagnostic equipment Hose couplings Industrial hose Mooring systems & power cables PTFE hose & tubing Quick couplings Rubber & thermoplastic hose Tubing & plastic fittings



Hydraulics

Key Markets Aerial lift Agriculture Alternative energy Construction machinery Forestry Industrial machinery Machine tools Marine Material handling Mining Oil & gas Power generation Refuse vehicles Renewable energy Truck hydraulics

Key Products

Accumulators Cartiridge valves Electrohydraulic actuators Human machine interfaces Hydraulic oylinders Hydraulic oylinders Hydraulic wintors & pumps Hydraulic wes & controls Hydraulic aves & controls Hydraulic aves & controls Hydraulic aves & controls Power take -offs Power units Rolary actuators Sensors



Pneumatics Key Markets Aerospace Conveyor & material handling Factory automation

Conveyor & material handling Factory automation Life science & medical Machine tools Packaging machinery Transportation & automotive

Key Products

Air preparation Brass fittings & valves Manifolds Pneumatic accessories Pneumatic valves & controls Quick disconnects Rotary actuators Rubber & thermoplastic hose & couplings Structural extrusions Thermoplastic tubing & fittings Vacuum generators, cups & sensors



Process Control

Key Markets Alternative fuels Biopharmaceuticals Chemical & refining Food & refining Food & beverage Marine & shipbuilding Medical & dental Microelectronics Nuclear Power Offshore oil exploration Oil & gas Pharmaceuticals Power generation Pulp & paper Steel Water/wastewater

Key Products

Analytical Instruments Analytical sample conditioning products & systems Chemical injection fittings & valves Fluoropolymer chemical delivery fittings, valves & pumps High purity gas delivery fittings, valves, regulators & digital flow controllers Industrial mass flow meters/ controllers Permanent no-weld tube fittings

Precision industrial regulators & flow controllers Process control double block & bleeds Process control fittings, valves, regulators & manifold valves

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- 11. <u>Improper use and Indemnity.</u> Buyer shall indemnify, defend, and hold Seller harmless from any claim, liability, damages, lawsuits, and costs (including attorney fees), whether for personal injury, property damage, patent, trademark or copyright

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- Limitation on Assignment. Buyer may not assign its rights or obligations under this agreement without the prior written consent of Seller.
- 14. Force Majeure. Seller does not assume the risk and shall not be liable for delay or failure to perform any of Seller's obligations by reason of circumstances beyond the reasonable control of Seller (hereinafter "Events of Force Majeure"). Events of Force Majeure shall include without limitation: accidents, strikes or labor disputes, acts of any government or government agency, acts of nature, delays or failures in delivery from carriers or suppliers, shortages of materials, or any other cause beyond Seller's reasonable control.
- 15. <u>Waiver and Severability</u>. Failure to enforce any provision of this agreement will not waive that provision nor will any such failure prejudice Seller's right to enforce that provision in the future. Invalidation of any provision of this agreement by legislation or other rule of law shall not invalidate any other provision herein. The remaining provisions of this agreement will remain in full force and effect.
- 16. Termination. Seller may terminate this agreement for any reason and at any time by giving Buyer thirty (30) days written notice of termination. Seller may immediately terminate this agreement, in writing, if Buyer: (a) commits a breach of any provision of this agreement (b) appointments a trustee, receiver or custodian for all or any part of Buyer's property (c) files a petition for relief in bankruptcy on its own behalf, or by a third party (d) makes an assignment for the benefit of creditors, or (e) dissolves or liquidates all or a majority of its assets.
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- 18. Indemnity for Infringement of Intellectual Property Rights. Seller shall have no liability for infringement of any patents, trademarks, copyrights, trade dress, trade secrets or similar rights except as provided in this Section. Seller will defend and indemnify Buyer against allegations of infringement of U.S. patents, U.S. trademarks, copyrights, trade dress and trade secrets ("Intellectual Property Rights"). Seller will defend at its expense and will pay the cost of any settlement or damages awarded in an action brought against Buyer based on an allegation that a Product sold pursuant to this Agreement infringes the Intellectual Property Rights of a third party. Seller's obligation to defend and indemnify Buyer is contingent on Buyer notifying Seller within ten (10) days after Buyer becomes aware of such allegations of infringement, and Seller having sole control over the defense of any allegations or actions including all negotiations for settlement or compromise. If a Product is subject to a claim that it infringes the Intellectual Property Rights of a third party, Seller may, at its sole expense and option, procure for Buyer the right to continue using the Product, replace or modify the Product so as to make it noninfringing, or offer to accept return of the Product and return the purchase price less a reasonable allowance for depreciation. Notwithstanding the foregoing, Seller shall have no liability for claims of infringement based on information provided by Buyer, or directed to Products delivered hereunder for which the designs are specified in whole or part by Buyer, or infringements resulting from the modification, combination or use in a system of any Product sold hereunder. The foregoing provisions of this Section shall constitute Seller's sole and exclusive liability and Buyer's sole and exclusive remedy for infringement of Intellectual Property Rights.
- 19. Entire Agreement. This agreement contains the entire agreement between the Buyer and Seller and constitutes the final, complete and exclusive expression of the terms of sale. All prior or contemporaneous written or oral agreements or negotiations with respect to the subject matter are herein merged.
- 20. Compliance with Law, U. K. Bribery Act and U.S. Foreign Corrupt Practices Act. Buyer agrees to comply with all applicable laws and regulations, including both those of the United Kingdom and the United States of America, and of the country or countries of the Territory in which Buyer may operate, including without limitation the U. K. Bribery Act, the U.S. Foreign Corrupt Practices Act ("FCPA") and the U.S. Anti-Kickback Act (the "Anti-Kickback Act"), and agrees to indemnify and hold harmless Seller from the consequences of any violation of such provisions by Buyer, its employees or agents. Buyer acknowledges that they are familiar with the provisions of the U. K. Bribery Act, the FCPA and the Anti-Kickback Act, and certifies that Buyer will adhere to the requirements thereof. In particular, Buyer represents and agrees that Buyer shall not make any payment or give anything of value, directly or indirectly to any governmental official, any foreign political party or official thereof, any candidate for foreign political office, or any commercial entity or person, for the purpose of influencing such person to purchase products or otherwise benefit the business of Seller.





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