

Motor Configuration Options

R = Recommended Option

X = Available Option

C = Consult Factory



Instrument Grade Brushless DC Servo Motors				Available Motor Options																										
				Encoder								Gearbox				Brake				Drive										
				E30A/B	E30C/D	E35A*	U*	H	Z	Q	C	G30A	PLG 32H	G35A	G40A	PLG 42K	PLG 42S	G51A	PLG 52	G3000	PLG 63	PLG 75	B30A	B49A	B3	B5	BGE3004	PBL4850E	BGE6010	BGE6050
Series	Diameter	Torque	RPM Max.																											
EC033A (1300)	1.3" (33mm)	3.5 - 8.5 ozin (0.025 - 0.06 Nm)	12,000	R	R	C	C					R	C	X													R	R	X	
EC044A (1.7")	1.72" (44mm)	6 - 11 ozin (0.043 - 0.081 Nm)	15,000	R	R	C	C	X	X						X	R	C	X					C				R	R	X	
EC042B	1.66" (42mm)	9 - 24 ozin (0.06 - 0.17 Nm)	9,000	C	R	R	C	X	X																		R	R	X	
EC057C (N2300)	2.25" (57mm)	11 - 40 ozin (0.078 - 0.28 Nm)	12,000	R	R	C	C							X		X		X												R
EC057B (I2380)	2.25" (57mm)	21 - 83 ozin (0.15 - 0.59 Nm)	6,000						R									X			X	R				X				R
EC057A (IB23000)	2.25" (57mm)	54 - 130 ozin (0.38 - 0.93 Nm)	6,000		C			X		R	X									X	C					X				R
EC083A (I3480)	3.25 (83mm)	130 - 300 ozin (0.9 - 2.1 Nm)	6,000						R		X									X	C					X				R
EC121A (I4680)	4.75" (120mm)	431 - 928 ozin (3.0 - 6.6 Nm)	5,000						R		X											C				X				R

Automation Grade Brushless DC Servo Motors				Available Motor Options							
				Encoder		Brake		Drive			
				Q	V	C	D	B5	B6	BGE6010	BGE6050
Series	Diameter	Torque	RPM Max.								
EA057A (AB23000)	2.25" (57mm)	66 - 250 ozin (0.47 - 1.7 Nm)	6,000	R	R	C	X		X	X	R
EA090A (AB34000)	3.5" (90mm)	260 - 650 ozin (1.8 - 4.6 Nm)	6,000	R		X	X			X	R

Slotless Brushless DC Servo Motors				Available Motor Options																										
				Encoder								Gearbox				Brake				Drive										
				E30A/B	E30C/D	U*	G30A	G35A	G40A	PLG 32	PLG 42S	G51A	PLG 52	PLG 63	B30A	B49A	PBL4850E	BGE6010												
Series	Diameter	Torque	RPM Max.																											
ES030A (3400)	1.38" (35mm)	4.1 - 5.8 ozin (0.029 - 0.041 Nm)	8,000	R	R	C	R	X	X	C				C	C	R	X													
ES040A (4400)	1.65" (42mm)	12 - 19 ozin (0.084 - 0.13 Nm)	8,000	R	R	C		X	X		R	X	X	C	C	R	R													
ES050A (5400)	2.25" (58mm)	25 - 43 ozin (0.18 - 0.30 Nm)	5,000	R	R	C		X	X		X	R	C	C	C	R	R													

High Performance Slotless Brushless DC Servo Motors				Available Motor Options																										
				Encoder		Gear		Drive		Special																				
				E21C/D	E30A/B	N	G10	G13	BGE3004	PBL4850E	BGE6010	Autoclave																		
Series	Diameter	Torque	RPM Max.																											
ES010A (BI-04)	0.375" (9.5 mm)	0.3 ozin (0.002 Nm)	70,000				R					X																		
ES013A (BI-05)	0.5" (12.7 mm)	0.9 - 1.1 ozin (0.006 - 0.007 Nm)	60,000					R				X																		
ES020A (BI-08)	0.8" (20 mm)	1.8 - 4.3 ozin (0.012 - 0.03 Nm)	60,000	X	C	C			R			X																		
ES028A (BI-11)	1.1" (28 mm)	6.2 - 14.9 ozin (0.043 - 0.11 Nm)	25,000	X	C	C						C	C																	

Brushless DC Motors With Integrated Controls				Available Motor Options																										
				Encoder								Gearbox				Brake														
				E30C/D	H	Z	PLG 42K	PLG 42S	G51A	PLG 52	PLG 75	B5																		
Series	Diameter	Torque	RPM Max.																											
EC044A (1.7")	1.72" (43.6mm)	6 ozin (0.042 Nm)	5,500	R	C	C	X	R	C	X	C																			
MA34000	3.86" (98mm)	104 - 214 ozin (0.73 - 1.51 Nm)	3,600								X																			

Brush Commutated DC Servo Motors				Available Motor Options																										
				Encoder								Gearbox				Brake				Drive										
				E21C/D	E22A*	E30A/B	E30C/D	E35A*	H	Q	G22A	G22B	PLG 24	G30A	G35A	G40A	PLG 42K	PLG 42S	G51A	PLG 52	G3000	PLG 63	PLG 75	B30A	B49A	B3	B5	PBL4850E	BGE6010	BGE6050
Series	Diameter	Torque	RPM Max.																											
DC022C (6210)	0.866" (22mm)	0.8 - 2 ozin (0.0057 - 0.014 Nm)	10,000	R	C					X	X	X																R	X	
DC026C (8690)	1.02" (26mm)	1.9 - 3.2 ozin (0.014 - 0.022 Nm)	10,000	R	C	X	X				X																R	R	X	
DC030B (8220)	1.18" (30mm)	1.6 - 2.6 ozin (0.011 - 0.018 Nm)	10,000	C	X	R	C					R	R	R												R	R	X		
DC030C (8540)	1.18" (30mm)	2.7 - 8.5 ozin (0.019 - 0.060 Nm)	10,000	C	X	R	C					R	R	R					X							R	R	X		
DC032A (7000)	1.25" (32mm)	3.8 - 4.9 ozin (0.027 - 0.034 Nm)	6,500						R																	R	R	X		
DC040B (9230)	1.58" (40mm)	2.4 - 12 ozin (0.017 - 0.081 Nm)	8,000	C	X	R	C					R			X	C	X	R	R						X	X			X	
DC054B (14200)	2.125 (54mm)	10 - 50 ozin (0.07 - 0.35 Nm)	6,000			R	R	C		C					R	C	R	R		R	C	C			X	X			R	
DC057A (ID23000)	2.25" (57mm)	30 - 57 ozin (0.21 - 0.40 Nm)	6,000		C	C			R	R											X				X	X			R	
DC083A (ID33000)	3.25 (83mm)	80 - 230 ozin (0.56 - 1.62 Nm)	6,000		C	C			R	R												C			X	X			R	

* Not recommended for new applications, newer products offer better value and performance. 160601
 This document is for informational purposes only and should not be considered as a binding description of the products or their performance in all applications. The performance data on this page depicts typical performance under controlled laboratory conditions. Actual performance will vary depending on the operating environment and application. AMETEK reserves the right to revise its products without notification. The above characteristics represent standard products. For products designed to meet specific applications, contact PITTMAN Motor Sales Department.



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