BLZ48 Series - Brushless DC Motors



- NEMA Size 48 BLDC Motors
- Compact Size with High Power Density
- Cost Effective Solution
- Long Life and Highly Reliable
- Can be Customized for
 - -Maximum Speed
 - -Winding Current
 - -Shaft Options
 - -Cables and Connectors



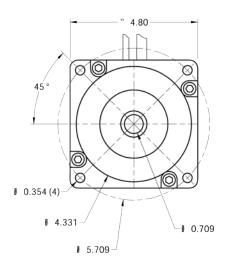
The BLZ48 Series Brushless DC Motors come in a compact package with high power density. These motors are cost effective solutions to many velocity control applications. A number of windings are available off-the-shelf and the motors can be customized to fit your machine requirements. The motors come in a standard 8-lead configuration. We can also customize the winding to perfectly match your voltage, current, and maximum operating speed. Special shaft modifications, cables and connectors are also available upon request.

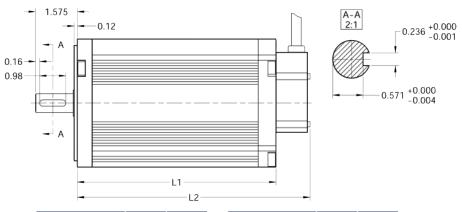
Ranted Voltage (VDC)	Rated Speed (RPM)	No Load Speed (RPM)	Rated Power (Watts)	Rated Torque oz-in)	No Load Current (A)	Rated Current (A)	Torque Constant	Line to Line Resitance (ohms)	Roter Inertia (oz-in-se c²)	Weight (lbs)
48	4000	4200	1500	595	4.5	36	17	0.04	1.09	19.8
160	3500	4000	1500	595	1.35	11	51	0.14	1.09	19.8
320	3500	4000	1500	595	1.35	5.65	106	0.57	1.09	19.8
48	4000	4000	2200	877	5	58	50	0.09	1.27	23.1
160	3500	4000	2200	877	5	17.5	15	0.1	1.27	23.1
320	3500	4000	2200	850	5	-	-	-	1.27	23.1
	Voltage (VDC) 48 160 320 48 160	Voltage (VDC) Speed (RPM) 48 4000 160 3500 320 3500 48 4000 160 3500	Voltage (VDC) Speed (RPM) Speed (RPM) Speed (RPM) 48 4000 4200 160 3500 4000 320 3500 4000 48 4000 4000 160 3500 4000	Voltage (VDC) Speed (RPM) Speed (RPM) Power (Watts) 48 4000 4200 1500 160 3500 4000 1500 320 3500 4000 1500 48 4000 4000 2200 160 3500 4000 2200	Voltage (VDC) Speed (RPM) Speed (RPM) Power (RPM) Torque (Watts) Torque oz-in) 48 4000 4200 1500 595 160 3500 4000 1500 595 320 3500 4000 1500 595 48 4000 4000 2200 877 160 3500 4000 2200 877	Voltage (VDC) Speed (RPM) Speed (RPM) Power (Watts) Torque oz-in) Ourent (A) 48 4000 4200 1500 595 4.5 160 3500 4000 1500 595 1.35 320 3500 4000 1500 595 1.35 48 4000 4000 2200 877 5 160 3500 4000 2200 877 5	Voltage (VDC) Speed (RPM) Speed (RPM) Power (Watts) Torque oz-in) Qurent (A) Qurent (A) Qurent (A) 48 4000 4200 1500 595 4.5 36 160 3500 4000 1500 595 1.35 11 320 3500 4000 1500 595 1.35 5.65 48 4000 4000 2200 877 5 58 160 3500 4000 2200 877 5 17.5	Voltage (VDC) Speed (RPM) Speed (RPM) Power (Watts) Torque oz-in) Ourent (A) Ourent (A) Torque Constant 48 4000 4200 1500 595 4.5 36 17 160 3500 4000 1500 595 1.35 11 51 320 3500 4000 1500 595 1.35 5.65 106 48 4000 4000 2200 877 5 58 50 160 3500 4000 2200 877 5 17.5 15	Voltage (VDC) Speed (RPM) Speed (RPM) Power (Watts) Torque oz-in) Ourent (A) Ourent (A) Longue Constant Resitance (ohms) 48 4000 4200 1500 595 4.5 36 17 0.04 160 3500 4000 1500 595 1.35 11 51 0.14 320 3500 4000 1500 595 1.35 5.65 106 0.57 48 4000 4000 2200 877 5 58 50 0.09 160 3500 4000 2200 877 5 17.5 15 0.1	Voltage (VDC) Speed (RPM) Speed (RPM) Power (Watts) Torque oz-in) Ourent (A) Ourent (A) Ourent (A) Iorque Constant Resitance (ohms) Inertia (oz-in-se c³) 48 4000 4200 1500 595 4.5 36 17 0.04 1.09 160 3500 4000 1500 595 1.35 11 51 0.14 1.09 320 3500 4000 1500 595 1.35 5.65 106 0.57 1.09 48 4000 4000 2200 877 5 58 50 0.09 1.27 160 3500 4000 2200 877 5 17.5 15 0.1 1.27

Notes: Custom leadwires, cables, connectors, and windings are available upon request.

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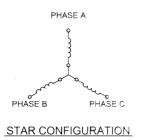


(AII	units	are	inches)	

Model#	Length "L1" (inches)	Length "L2" (inches)	Model#	Length "L1" (inches)	Length "L2" (inches)
BLZ482S-48V-4000	7.6	8.6	BLZ483S-48V-4000	8.8	9.5
BLZ482S-160V-3500	7.6	8.6	BLZ483S-160V-3500	8.8	9.5
BLZ482S-320V-3500	7.6	8.6			

Wire Color	
Blue	U(A)
Brown	V (B)
Red	W (C)

Wire Color	Description		
Green	Phase U (A)		
Yellow	Phase V (B)		
Red	Phase W (C)		
Red	Hall Supply		
Yellow	Hall A		
Orange	Hall B		
Brown	Hall C		
Black	Hall Ground		



Winding Type:	Star, 8 Poles	Max Radial Force:	28N @ 20mm from the flange
Hall Effect Angle:	120° electrical angle	Max Axial Force:	10N
Shaft Run Out:	0.025mm	Insulation Class:	Class B
Radial Play:	0.02mm@450g	Dielectric Strength:	500VDC for one minute
End Play:	0.08mm@450g	Insulation Resistance:	100MOhm, 500VDC