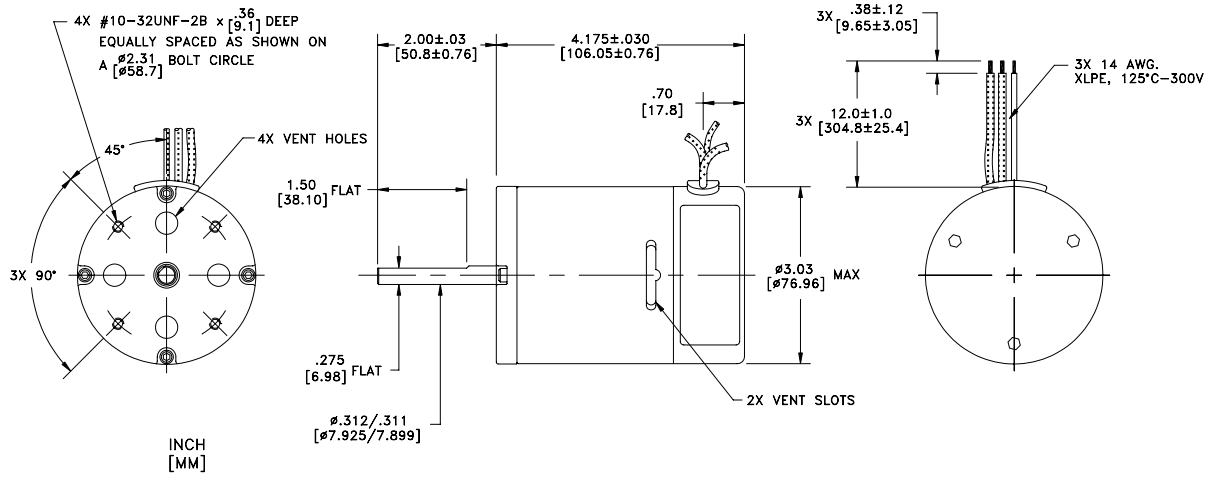
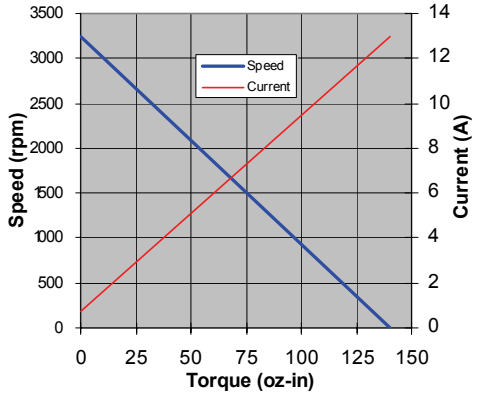
ϕ3.0” (ϕ76mm) SERIES BRUSHLESS DC MOTOR



Motor Data	Symbol	Units	Part Number Designation 150218-00
Supply Voltage (Reference)	V_s	V	27.6
Continuous Torque[3]	T_c	oz-in	55.0
		Nm	0.388
Speed @ Cont. Torque	S_c	rpm	2750
Current @ Cont. Torque	I_c	A	5.00
Continuous Output Power[3]	$P_{o,c}$	W	113
Motor Constant	K_M	oz-in/√W	23.9
		Nm/√W	0.169
Torque Constant	K_T	oz-in/A	11.48
		Nm/A	0.0811
Voltage Constant	K_E	V/krpm	8.49
		V s/rad	0.0811
Winding Resistance	R_{mt}	Ω	0.23
Inductance	L	mH	0.69
No-Load Current	I_{nl}	A	0.70
No-Load Speed	S_{nl}	rpm	3250
Peak Current (Stall)[2]	I_{pk}	A	13.0
Peak Torque (Stall)[2]	T_{pk}	oz-in	140.0
		Nm	0.989
Max. Winding Temperature	θ_{max}	°C	105
Rotor Inertia	J_r	oz-in-sec^2	6.7x10^{-3}
		kg m^2	4.7x10^{-5}
Motor Weight (Mass)	w_M	oz	52
		g	1474

Performance (150218-00)



Standard Features

- Sealed Ball Bearings
- 8-Pole Rotor
- Neodymium Magnets
- Integrated Controller
- IP622
- Aluminum Housing

Complementary Products

- Planetary Gearbox

Connection Chart

Color/Pin	Function
Red	+27.6VDC
Black	Return
Orange	Low Speed

Notes:

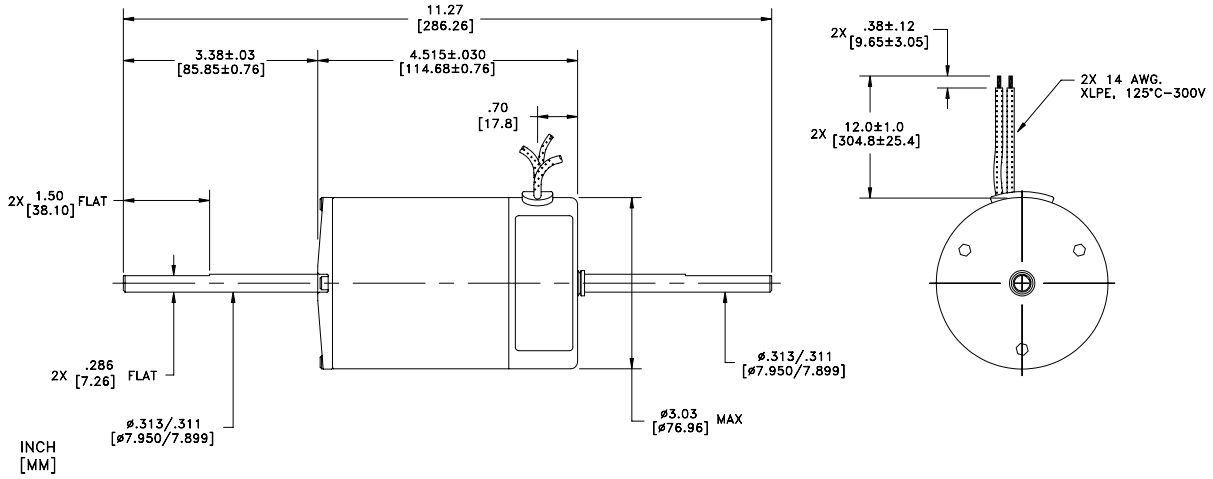
[1] All values specified at 25°C ambient temperature and without heat sink.

[2] Peak values are limited internally by the control electronics.

[3] Recorded at max. winding temperature at 25°C ambient, mounted to a 12”x12”x0.5” heatsink.

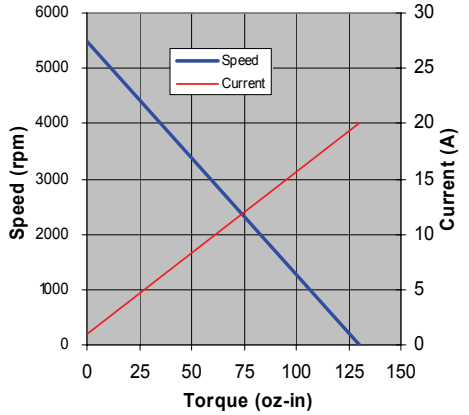
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ϕ3.0” (ϕ76mm) SERIES BRUSHLESS DC MOTOR



Motor Data	Symbol	Units	Part Number Designation 150209-00
Supply Voltage (Reference)	V_s	V	27.6
Continuous Torque	T_c	oz-in	90.0
		Nm	0.636
Speed @ Cont. Torque	S_c	rpm	4450
Current @ Cont. Torque	I_c	A	13.00
Continuous Output Power	$P_{o,c}$	W	300
Motor Constant	K_M	oz-in/√W	19.1
		Nm/√W	0.135
Torque Constant	K_T	oz-in/A	6.82
		Nm/A	0.0482
Voltage Constant	K_E	V/krpm	5.04
		V s/rad	0.0482
Terminal Resistance	R_{mt}	Ω	0.13
Inductance	L	mH	0.21
No-Load Current	I_{nl}	A	1.00
No-Load Speed	S_{nl}	rpm	5475
Peak Current (Stall)[2]	I_{pk}	A	20.0
Peak Torque (Stall)[2]	T_{pk}	oz-in	130.0
		Nm	0.918
Max. Winding Temperature	θ_{max}	°C	105
Rotor Inertia	J_r	oz-in-sec^2	8.8x10^{-3}
		kg m^2	6.2x10^{-5}
Motor Weight (Mass)	w_M	oz	57
		g	1616

Performance (150209-00)



Standard Features	
• Sealed Ball Bearings	• Integrated Controller
• 8-Pole Rotor	• IP65
• Neodymium Magnets	• Aluminum Housing

Connection Chart	
Color/Pin	Function
Red	+27.6VDC
Black	Return

Notes:

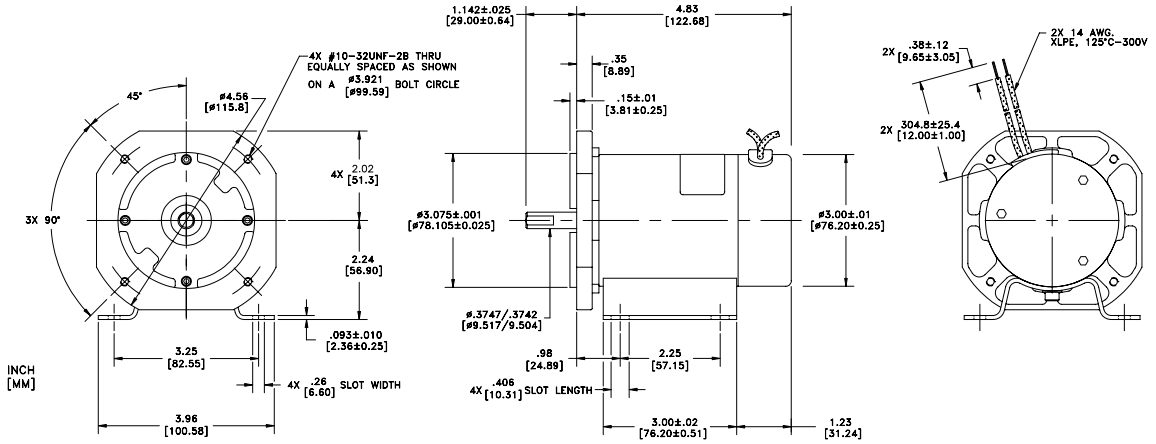
[1] All values specified at 25°C ambient temperature and without heat sink.

[2] Peak values are limited internally by the control electronics.

[3] Recorded at max. winding temperature at 25°C ambient, mounted to a 12”x12”x0.5” heatsink.

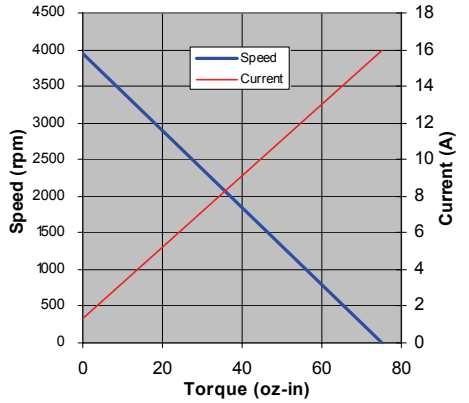
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ϕ3.0” (ϕ76mm) SERIES BRUSHLESS DC MOTOR



Motor Data	Symbol	Units	Part Number Designation
			150072-00
Supply Voltage (Reference)	V_s	V	13.8
Continuous Torque[3]	T_c	oz-in	45.0
		Nm	0.318
Speed @ Cont. Torque	S_c	rpm	3425
Current @ Cont. Torque	I_c	A	10.00
Continuous Output Power[3]	$P_{o,c}$	W	170
Motor Constant	K_M	oz-in/√W	6.2
		Nm/√W	0.044
Torque Constant	K_T	oz-in/A	4.72
		Nm/A	0.0333
Voltage Constant	K_E	V/krpm	3.49
		V s/rad	0.0333
Winding Resistance	R_{mt}	Ω	0.58
Inductance	L	mH	0.10
No-Load Current	I_{nl}	A	1.30
No-Load Speed	S_{nl}	rpm	3950
Peak Current (Stall)[2]	I_{pk}	A	16.0
Peak Torque (Stall)[2]	T_{pk}	oz-in	75.0
		Nm	0.530
Max. Winding Temperature	θ_{max}	°C	105
Rotor Inertia	J_r	oz-in-sec^2	8.7x10^{-3}
		kg m^2	6.2x10^{-5}
Motor Weight (Mass)	w_M	oz	81.6
		g	2313

Performance (150072-00)



Standard Features	
• Sealed Ball Bearings	• Integrated Controller
• 8-Pole Rotor	• IP65
• Neodymium Magnets	• Aluminum Housing

Complementary Products	
• Planetary Gearbox	• Centrifugal Pump

Connection Chart	
Color/Pin	Function
Red	+13.8VDC
Black	Return

Notes:

[1] All values specified at 25°C ambient temperature and without heat sink.

[2] Peak values are limited internally by the control electronics.

[3] Recorded at max. winding temperature at 25°C ambient, mounted to a 12”x12”x0.5” heatsink.

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