

BRUSHLESS HIGH SPEED DIRECT DRIVE

AC-PM DIRECT DRIVE 9 kW/12HP OAK MOTOR

This high RPM AC-PM Motor is appropriate for 10 & 19 Spline Graziano or Dana transaxles as well as other customizable applications which require high torque, high RPM's and Silent Operation.

SAVE TIME & MONEY

Easy installation and super reliability make this system the best value for your dollar!



Engineered in Canada



FEATURES

OPTIMAL PERFORMANCE

When paired with an ASI Controller the Accelerated Motor provides a powerful and customizable drive.

BUILT IN TEMPERATURE SENSOR

Continually monitors the Motor to protect from overheating and damage.

MINIMAL MAINTENANCE

No Brushes or commutator requiring maintenance or replacement.

POWER & TORQUE

With 9 kW (12HP), 75Nm - 120Nm of Torque and weighing only 37lbs, our Motor has the highest Power and Torque density in the industry.

MACHINE WOUND STATOR

Ensures the Motor is built to the same high standards every time!

EFFICIENCY

The Oak AC-PM Brushless Permanent Magnet Motor provides the highest efficiency through the full operating range of the motor.



**ASI ACCELERATED™
SYSTEMS INC.**

519.342.2507 |

www.accelerated-systems.com

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Specifications subject to change without notice.

BRUSHLESS HIGH SPEED DIRECT DRIVE

AC-PM DIRECT DRIVE 12 HP OAK MOTOR

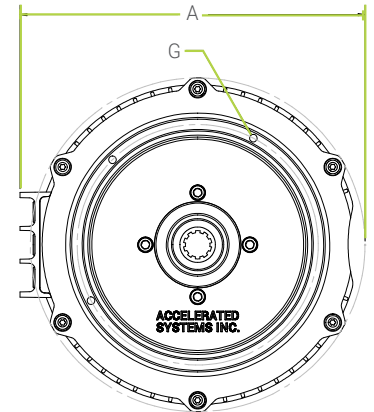
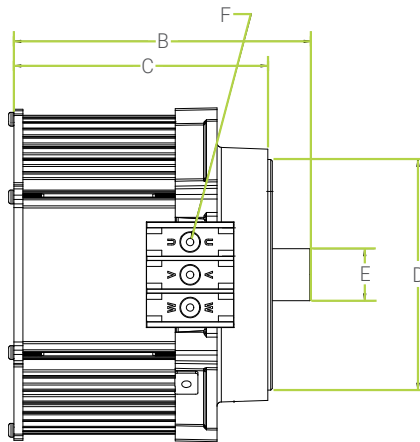


SPECIFICATIONS		PERFORMANCE			
MOTOR TYPE	Brushless PM Direct Drive	MOTOR TECHNOLOGY COMPARISONS			
VOLTAGE	48V - 72V	OAK AC-PM	AC	DC SHUNT WOUND	
OUTPUT POWER	9 kW (12HP)	BRUSHES	NO	NO	YES
TORQUE RANGE	75 Nm - 120 Nm	ZERO POWER HILL HOLD	YES	NO	NO
MAX RPM (@ VOLTAGE)	8000 RPM @48V	EFFICIENCY	90%	78%	72%
MAX. EFFICIENCY	91%	RANGE	20% MORE	8% MORE	STANDARD EV
SPEED RANGE *	0 - 32 mph / 0 - 52 kph	SMART BATTERY MGMT	YES	NO	NO
SHAFT TYPE	10 or 19 Spline	WEIGHT	37 LBS	65 LBS	65 LBS
APPLICATIONS	High Torque, High Speed	SMART PHONE APP	YES	YES	NA
PHASE RESISTANCE	4 milli-ohm	VOLTAGE	48-72V	48-72V	48-72V

* 12.4:1 TRANSAXLE

PRACTICAL RATINGS				
SCENARIOS	TORQUE (Nm)	SPEED (RPM)	POWER (HP)	EFFICIENCY (%)
HIGH SPEED CRUISE	17	5000	12	88
CLIMBING A HILL	50	1600	11	70

MOTOR DIMENSIONS			
		MM	IN
MOTOR DIAMETER	A	231	9.10
BODY LENGTH (W/SHAFT)	B	199	7.83
BODY LENGTH	C	170	6.69
PILOT LIP DIAMETER	D	155	6.10
SHAFT DIAMETER	E	35	1.38
CONNECTOR BOLTS (X3)	F	M6 -1.0 x 12 mm	
MOUNTING HOLES (X3)	G	1/4 - 20 UNC x .83" deep	



DIMENSIONS ARE +/- .01" OR

Note: Model shown is a Single Bearing Model for Vehicles with Graziano or Dana Trans-axles, also available is a Dual Bearing Variant with custom Drive Shaft for Direct Drive systems such as go-carts and other custom vehicles.



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