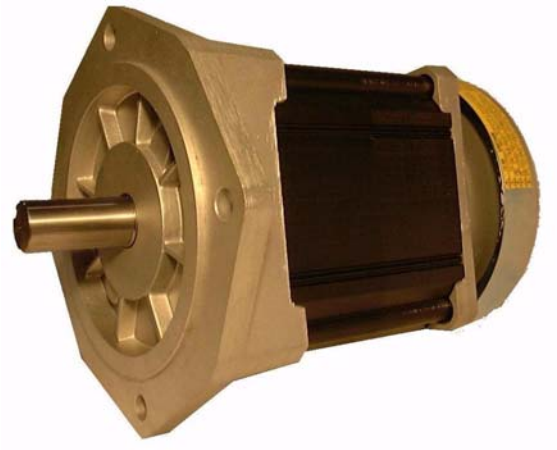
Rocky Mountain Technologies, Inc.

SRB165 Switched Reluctance Motor



- **Three Phase Construction**
- **Three Standard Sizes available**
- **One Standard Operating Voltages**
- **Compatible Drive Systems are available**
- **9 HP peak and 4.6 HP continuous**

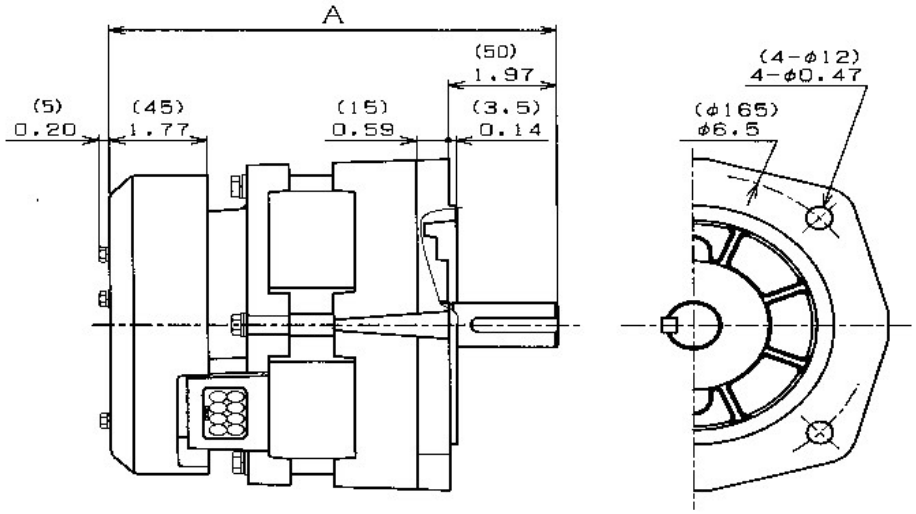
FEATURES

- **SR design:** The inherent benefits and simplicity of Switched Reluctance Motors (SRM) allow for high speed and high torque operation at high efficiency. Switched Reluctance Motors operate without magnets.
- **Multiple stack lengths:** Three stack lengths are part of the standard product line. These choices provide a range of motor performance from one flange size, allowing for increased motor torque with the same equipment.
- **Motor Drive Availability:** A range of standard drives as well a custom drive design and manufacturing capability allow for an optimally matched system. Please contact us for more information.
- **High torque and efficiency:** The SR motor allows for simplification of the system design and improvement of total system efficiency.
- **Flexibility in motor winding selection:** A range of standard windings has been selected for common operating voltages. Production motors can be tailored for specification application profiles to optimize the performance and efficiency.
- **Regenerative capability:** The SR motor technology is well suited for both motor and power generating applications. For electric vehicle applications, four quadrant regenerative breaking allows recharging of the batteries during braking and dramatically improves the range.

SPECIFICATIONS

Model No.	HP Peak	HP Cont.	Peak Torque lb-in (Nm)	Max speed rpm	Shaft OD inch/mm	Weight lbs. (kg)
SRB165S	6.7	3.0	71 (8.0)	12,000	0.94 (24)	18.7 (8.5)
SRB165M	11.5	5.3	121 .(13.7)	12,000	0.94 (24)	25.3 (11.5)
SRB165L	15.6	8.4	164 (18.6)	12,000	0.94 (24)	31.9 (14.5)

All data taken at a 6,000 RPM base speed. The SR165 is a Switched Reluctance motor that is well suited for traction applications. The high starting torque and efficiency makes it well suited for light vehicle and other demanding application. The motor uses a 12/8 topology in a three-phase configuration.



G	SIZE	CL	A	B	SPECIFICATIONS
G-1	S	40mm	129mm	200mm	1.2 kW, 1.9Nm/6000 RPM
G-2	M	70mm	159mm	230mm	2.32 kW, 3.69 Nm / 6000 RPM
G-3	L	100mm	189mm	260mm	3.3 kW, 5.27 Nm / 6000 RPM

GENERAL SPECIFICATIONS

Peak Efficiency: 94.6%
Connection: 6 winding leads and 6 resolver wires
Max. winding temp: 180°C
Standard voltages: 340 VDC (208/220 VAC)
Custom windings available upon request

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