



### Key Performance Features:

- High Energy Neodymium Magnets
- Peak Torque to 1700 oz-in
- Excellent Torque to Weight Ratio
- Encoder Ready
- Low Voltage High Performance Design is Available
- 12-120 VDC Typical

# S28

BRUSHED  
SERVO  
MOTOR  
SERIES

### Motor Characteristics

FRAME SIZE	STACK LENGTH	PEAK STALL TORQUE (T <sub>p</sub> ) OZ-IN	CONT. STALL TORQUE (T <sub>c</sub> ) OZ-IN	ROTOR INERTIA (J <sub>m</sub> ) OZ-IN-SEC <sup>2</sup>	FRICTION TORQUE (T <sub>f</sub> ) OZ-IN	THERMAL RESISTANCE (RM) °C/WATT	MAX RECOMMEND SPEED RPM	MAX WINDING TEMP. C°	POWER RANGE W	WEIGHT LB
S28	-- 100	900	80	0.01	6	3.7	4000	155	80	3
S28	-- 200	1300	130	0.02	7	2.9	4000	155	150	4
S28	-- 300	1500	200	0.025	8	2.3	4000	155	200	5.5
S28	-- 400	1700	250	0.04	9	1.8	4000	155	250	6.8

### Sample Windings

CONSULT MAGMOTOR APPLICATION STAFF FOR OTHER AVAILABLE WINDINGS

	S28 -- 100				S28 -- 200				S28 -- 300				S28 -- 400			
	E	G	I	K	E	G	I	K	E	G	I	K	E	G	I	K
<b>Torque Constant (Kt)</b> oz-in/amp	8.8	14.1	22.9	36.4	17.5	27.9	44.8	71.1	27.5	40.6	65.6	104.1	34.4	56.1	89.0	134.6
<b>Voltage Constant (Ke)</b> Volts/Krpm	6.50	10.4	17.0	26.9	13.0	20.6	33.1	52.6	19.3	30.0	48.5	77.0	25.4	41.5	65.8	99.5
<b>Term. Resistance (Rt)</b> Ohms (cold)	0.5	0.9	1.3	3.4	0.8	2.0	3.4	7.0	0.8	1.4	4.5	9.8	0.83	2.2	5.5	12.2
<b>Peak Current (A)</b> Amps	60	36	23	15	60	36	23	15	60	36	23	15	60	36	23	15
<b>Cont. Current (A)</b> Amps	9	5	3	2	9	5	3	2	9	5	3	2	9	5	3	2

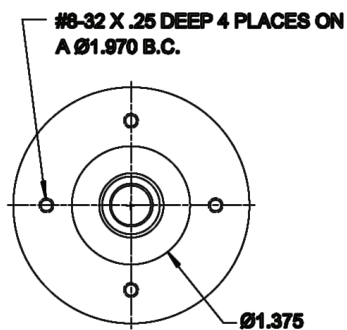
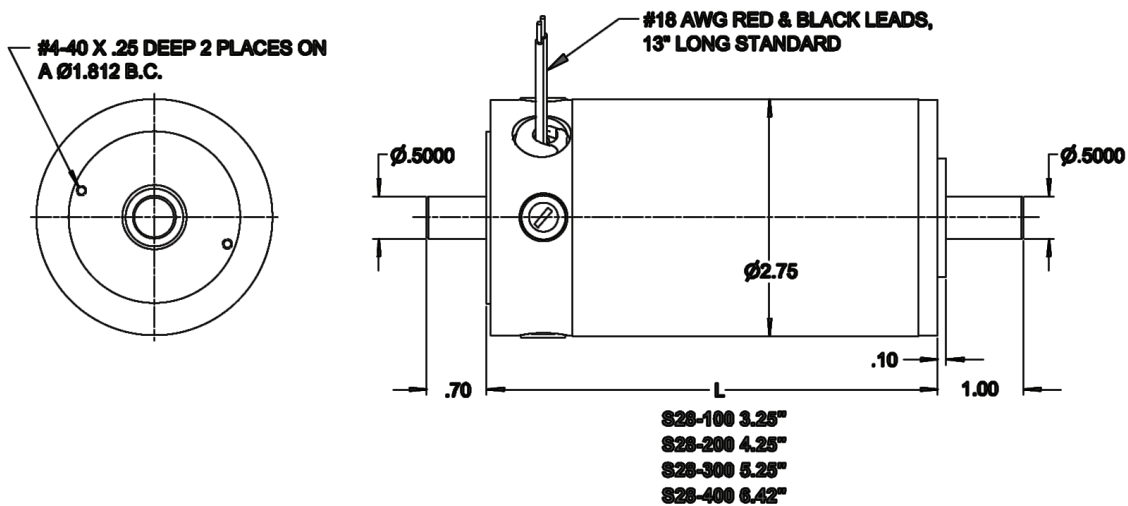
VALUES AS LISTED ARE TEST CONDITIONS, ACTUAL RESULTS MAY VARY

## ▼ S28 Series Options

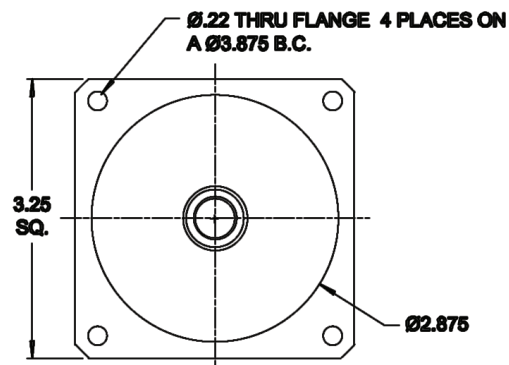
- Optical Encoders
- Tachometers, Brakes and Gear Boxes
- Custom Cables and Connectors
- IP 65 Sealing
- NEMA 34 Flange Mounting
- For more options, see [magmotor.com](http://magmotor.com) custom solutions, or call us.

## ▼ Typical Applications

- Packaging Machines
- Machine Tools
- Coil Winders
- Electric Vehicles
- Material Handling Equipment
- Textile Machines



OPTION-  
ROUND FACE MOUNT



NEMA 34  
FLANGE MOUNT