Magmotor™

30-70 oz-in Continuous Torque

Key Performance Features:

- Economical 2-Pole Design
- Skewed and Balanced Armatures
- Encoder Ready
- Round or Optional NEMA 23 Mounting
- 12-120 VDC Available

C21 BRUSHED SERVO MOTOR SERIES

Motor Characteristics

FRAME SIZE STACK LENGTH	PEAK STALL TORQUE (T_P) OZ-IN	CONT. STALL TORQUE (T_C) OZ-IN	ROTOR INERTIA (J_M) OZ-IN-SEC^2	FRICTION TORQUE (T_F) OZ-IN	THERMAL RESISTANCE (RM) °C/WATT	MAX RECOMMEND SPEED RPM	MAX WINDING TEMP. C°	POWER RANGE W	WEIGHT LB
C21 -- 175	180	30	0.0046	2	4.9	4500	155	45	2.3
C21 -- 230	280	40	0.006	2.5	4.4	4500	155	62	2.7
C21 -- 300	350	50	0.008	3	3.8	4500	155	72	3.2
C21 -- 400	420	70	0.011	3.5	2.9	4500	155	92	4.8

SHORTER MOTOR IS AVAILABLE

Sample Windings

CONSULT MAGMOTOR APPLICATION STAFF FOR OTHER AVAILABLE WINDINGS

	C21 -- 175				C21 -- 230				C21 -- 300				C21 -- 400			
	B	E	H	K	B	E	H	K	B	E	H	K	B	E	H	K
Torque Constant (Kt) oz-in/amp	4.6	9.1	19.5	36.5	5.4	11.3	21.4	43.8	6.7	14.1	28.1	56.3	9.0	18.0	36.1	70.3
Voltage Constant (Ke) Volts/Krpm	3.4	6.7	13.7	27.0	4.0	8.4	15.8	32.4	4.9	10.4	20.8	41.8	6.7	13.3	26.7	52.0
Term. Resistance (Rt) Ohms (cold)	0.4	1.3	4.6	21.0	0.4	1.6	5.4	24.0	0.6	1.75	6.6	26.0	1.27	2.4	12.5	30.5
Peak Current (A) Amps	40	20	10	5	40	20	10	5	40	20	10	5	40	20	10	5
Cont. Current (A) Amps	7.1	3.4	1.8	1.0	7.1	3.4	1.8	1.0	7.1	3.4	1.8	1.0	7.1	3.4	1.8	1.0

VALUES AS LISTED ARE TEST CONDITIONS, ACTUAL RESULTS MAY VARY

C21 Series Options

- Optical Encoders
- Tachometers, Brakes and Gearbox
- Application Specific Windings and Mechanical designs
- Custom Cables and Connectors
- For more options, see magmotor.com custom solutions, or call us.

Typical Applications

- Semiconductior Equipment
- Medical Equipment
- Automated Assembly Machines
- Laboratory Equipment
- X-Y-Z Positioning Machines
- Pharmaceutical Equipment

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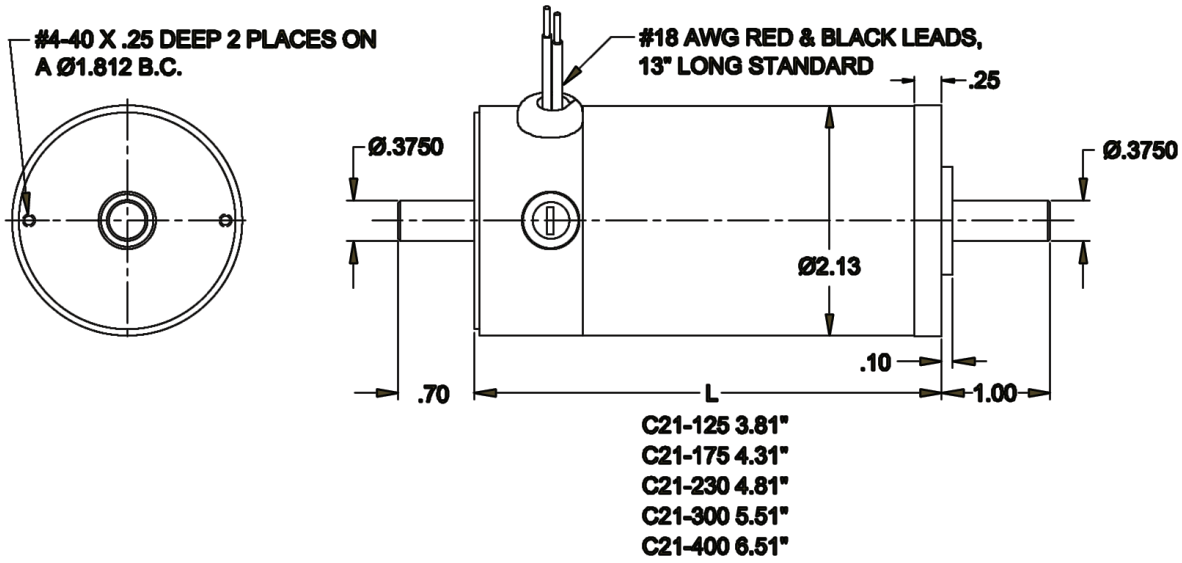
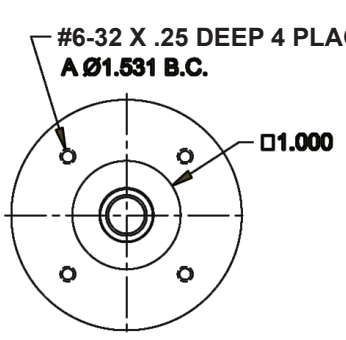
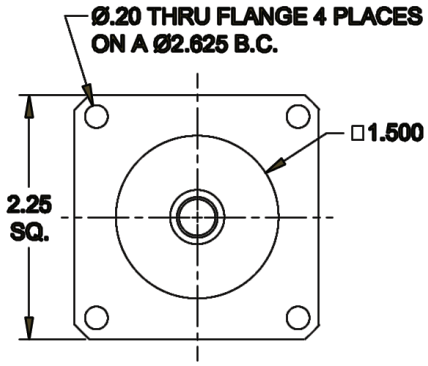




STANDARD
ROUND FACE MOUNT



NEMA 23
FLANGE MOUNT