



### 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 <sub>p</sub> ) OZ-IN	CONT. STALL TORQUE (T <sub>c</sub> ) OZ-IN	ROTOR INERTIA (J <sub>r</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
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
<b>Torque Constant (Kt)</b> 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
<b>Voltage Constant (Ke)</b> 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
<b>Term. Resistance (Rt)</b> 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
<b>Peak Current (A)</b> Amps	40	20	10	5	40	20	10	5	40	20	10	5	40	20	10	5
<b>Cont. Current (A)</b> 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](http://magmotor.com) custom solutions, or call us.

## ▼ Typical Applications

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

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