



## Key Performance Features:

- Smooth 4-Pole Performance
- Skewed and Balanced Armatures
- Encoder Ready
- Round or Optional NEMA 34 Mounting
- 12-120 VDC Available

# C33

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
C33	-- 100	480	50	0.01	6	3.7	4000	155	75	4.0
C33	-- 200	850	90	0.02	7	2.9	4000	155	120	5.2
C33	-- 300	1200	130	0.025	7.5	2.3	4000	155	150	7.5
C33	-- 400	1250	172	0.04	8	1.8	4000	155	180	9.0

## Sample Windings

CONSULT MAGMOTOR APPLICATION STAFF FOR OTHER AVAILABLE WINDINGS

	C33 -- 100				C33 -- 200				C33 -- 300				C33 -- 400			
	E	G	J	L	D	F	I	K	E	G	I	K	C	E	H	J
<b>Torque Constant (Kt)</b> oz-in/amp	6.8	10.8	21.4	34.1	9.9	16.3	31.4	50.0	18.0	28.7	45.3	72.0	15.2	24.2	48.3	76.4
<b>Voltage Constant (Ke)</b> Volts/Krpm	5.0	8.0	15.8	25.2	7.3	12.1	23.2	37.0	13.3	21.2	33.5	53.2	11.2	17.9	35.7	56.5
<b>Term. Resistance (Rt)</b> Ohms (cold)	0.4	0.95	2.9	5.8	0.4	0.85	2.8	8.0	0.73	1.4	3.8	10.0	0.5	1.0	3.5	8.6
<b>Peak Current (A)</b> Amps	75	48	24	15	75	48	24	15	75	48	24	15	75	48	24	15
<b>Cont. Current (A)</b> Amps	7.3	4.7	3.0	2.0	7.3	4.7	3.0	2.0	7.3	4.7	3.0	2.0	7.3	4.7	3.0	2.0

VALUES AS LISTED ARE TEST CONDITIONS, ACTUAL RESULTS MAY VARY

## ▼ C33 Series Options

- Optical Encoders
- Tachometers, Brakes and Gearbox
- Application Specific Windings and Mechanical designs
- IP65 Sealing
- For more options, see magmotor.com custom solutions, or call us.

## ▼ Typical Applications

- Printing/Imaging Equipment
- Labeling Machines
- Automated Dispensing & insertion Machines
- Semiconductor Equipment
- Automated Assembly Machines
- Precision X-Y Positioning Machines

**Magmotor**<sup>™</sup>  
*AUS Hybrid Company*

