

CM Technology



Key Performance Features:

- 680 to 1680 oz-in Continuous Torque
- 24-600 VDC Typical
- 4-Pole Neodymium Magnets Performance
- Dynamically Balanced Rotors
- Stainless Steel Shaft
- RoHS Compliant, CE Certification

BL428

Brushless Servo Motors

Motor Characteristics

FRAME SIZE	STACK LENGTH	Peak Stall Torque (Tp) oz-in	Cont. Stall Torque (Tc) oz-in	Friction & Cogging Torque (Tf) oz-in	Rotor Inertia (Jm) oz-in-sec ²	Thermal Resistance (Rth) degC/Watt	Max Recom'd Speed RPM	Max Winding Temp C	Elec Time Constant (Te) msec	Power Range W	Weight lb
BL428	200	1950	680	22.0	0.041	0.35	6000	155	5.4	1260	9.7
BL428	300	2700	945	31.0	0.062	0.31	6000	155	5.5	1785	12.8
BL428	400	3600	1260	40.0	0.082	0.28	6000	155	5.6	2100	16.0
BL428	600	4800	1680	60.0	0.124	0.20	6000	155	5.7	2940	24.2

Sample Windings

CONSULT CM Technology APPLICATION STAFF FOR OTHER AVAILABLE WINDINGS

	BL428 - 200				BL428 - 300				BL428 - 400				BL428 - 600			
	5E	5G	5I	5K	5E	5G	5I	5K	5E	5G	5I	5K	5E	5G	5I	5K
Torque Constant (Kt) oz-in/amp	9.9	15.7	24.9	39.5	14.8	23.5	37.3	59.2	19.7	31.3	49.8	79.0	29.8	47.0	74.6	118.5
Voltage Constant (Ke) Volts/Krpm	7.3	11.6	18.4	29.2	10.9	17.4	27.6	43.8	14.6	23.2	36.8	58.4	21.9	34.8	55.2	87.6
L-L Resistance (Ra) Ohms (cold)	0.02	0.05	0.14	0.33	0.04	0.07	0.17	0.40	0.05	0.10	0.22	0.57	0.15	0.21	0.46	0.88
Inductance (L-L) mH	0.08	0.19	0.47	1.18	0.12	0.29	0.71	1.80	0.15	0.39	0.95	2.37	0.23	0.59	1.43	3.60
Peak Current (A) Amps	195	125	78	49	182	114	72	45	183	115	72	45	162	102	64	40

VALUES AS LISTED ARE TEST CONDITIONS. ACTUAL RESULTS MAY VARY

For more options or assistance contact CM Technology with your application needs
 Phone (978) 664-6218 • Fax (978) 664-6219 • E-mail: sales@cmtechllc.com

BL428 Series Options

- Feedback: Hall Sensors, Resolvers, Optical Encoders Commutation Encoders
- Accessories: Gear Boxes, Brakes & Pumps
- Application Specific Windings and Mechanical Interface Designs
- Custom Cables and Connectors
- IP 67 Sealing

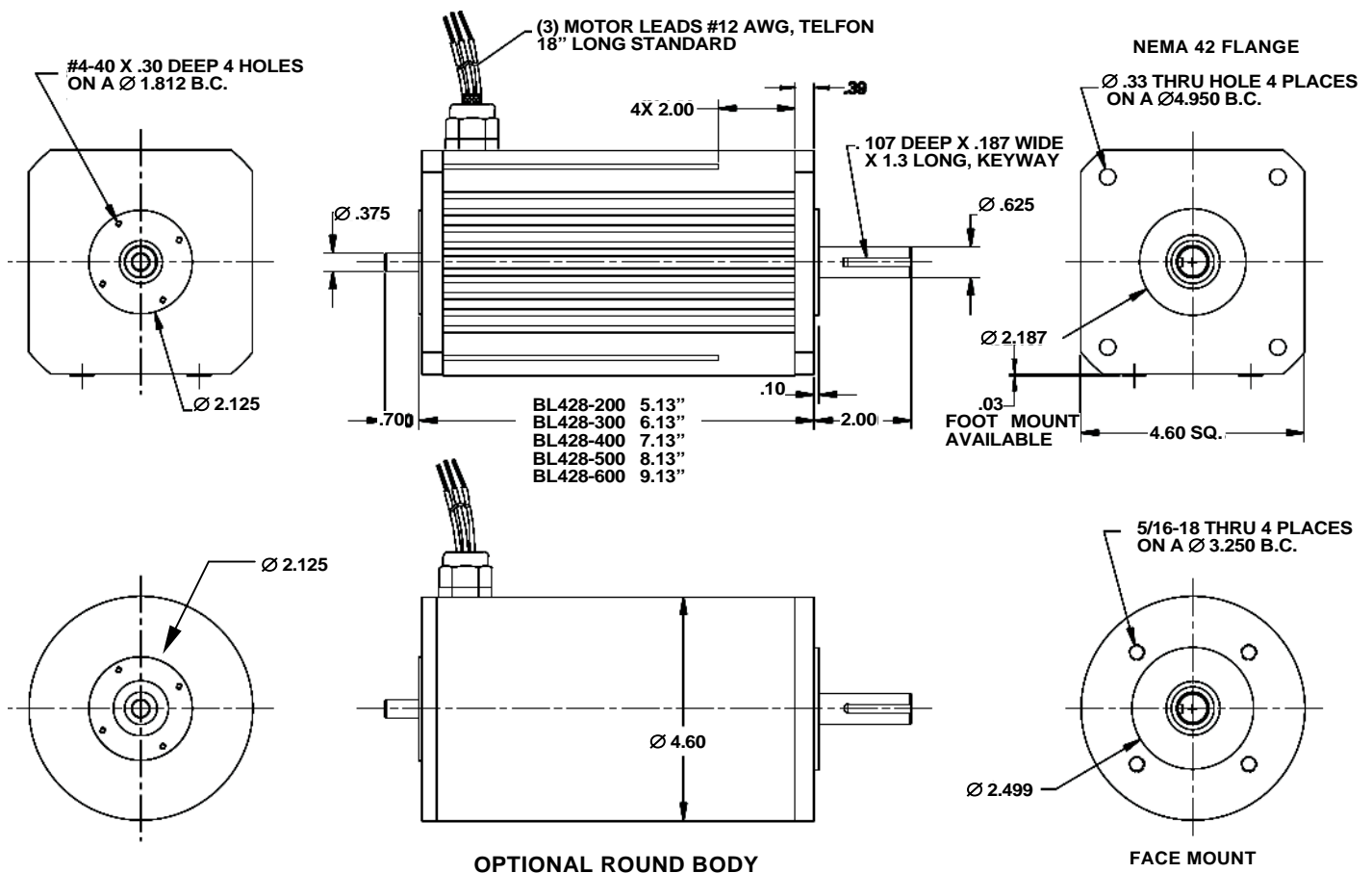
Typical Applications

- Hybrid, Electrical Vehicle Systems
Commercial, Off Road, Fleet & Military
- Hydraulic Power Steering
- Compressor
- Vehicle Hydraulic Accessories
- Robotic Wheel Motors

Contact CM Technology for your customized application solutions

CM Technology

BL 428 Series Square Flange Mount with Finned Body



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