

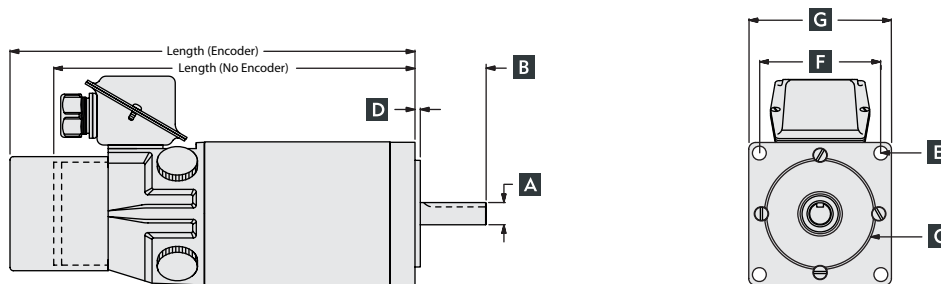
High-Torque. Long life.

Our ElectroCraft DirectPower™ Plus 720 Series features a rugged, heavy-gauge steel housing construction for long-life and durability. This high-efficiency motor offers smooth and highly accurate performance across the operating speed range. It includes dynamically balanced armatures, sealed construction for reliability in most environments, sealed ball bearings, and replaceable brushes.



DPP720 BRUSH MOTOR	
Size	4.00 inches or 102mm
Peak Torque	to 2880 oz-in or 2034 Ncm

Model	MAX Length Encoder	MAX Length No Encoder	A	B	C	D	E	F	G	H	I	J
			Front Shaft Diameter	Front Shaft Length	Pilot Diameter	Pilot Length (Ref)	Mounting Hole Pattern (Ref)	Mount Hole Spacing (Ref)	Flange External Dimension (Ref)	Rear Shaft Diameter	Rear Shaft Length	Encoder Length (Ref)
DPP726T	10.67 in	9.41 in	0.6250 in 0.6245 in	2.000 in ±0.03	3.000 in 2.997 in	0.150 in	(4) 0.390 DIA THRU EQ SP on 4.817 D.B.C.	3.406 in	4.00 in SQ	N/A	N/A	N/A
DPP727T	11.42 in	10.16 in										
DPP728T	12.91 in	11.65 in										
DPP726MT	271 mm	239 mm	16.00 mm 15.99 mm	40 mm ±0.762	95.00 mm 94.92 mm	3.8 mm	(4) 10 mm DIA THRU EQ SP on 122.34 mm D.B.C.	86.51 mm	102 mm SQ	N/A	N/A	N/A
DPP727MT	290 mm	258 mm										
DPP728MT	328 mm	296 mm										



DPP720 Model Number

1 - Frame Size
(Imperial or Metric)

D P P 7 2 6

Product Name

Frame Size

2 - Torque

T - 3 5 5

Tachometer Standard

Continuous Torque (oz-in)

3 - Winding

V 9 0 - 1 2 2 - C

Voltage

Rear Shaft

Front Shaft

Lead Shaft Option

Encoder

D P P 7 2 6 M

Product Name

Frame Size

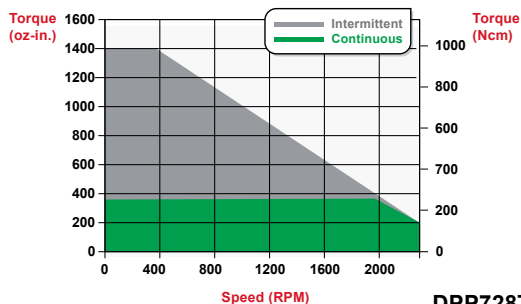
Optional Metric

Tachometer Standard

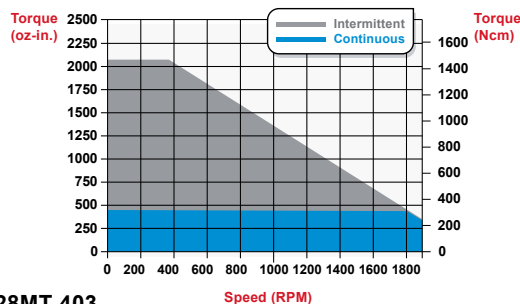
Continuous Torque (Ncm)

DPP720 - Performance

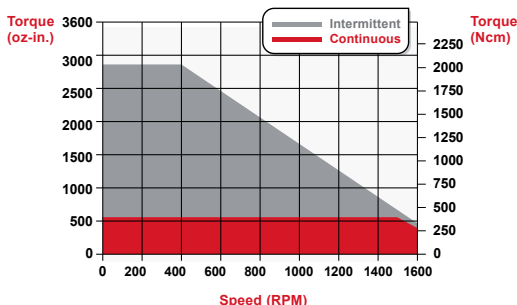
DPP726T-355 & DPP726MT-251



DPP727T-455 & DPP727MT-321



DPP728T-570 / DPP728MT-403



Continuous torque ratings developed with 12" x 12" x 0.50" heat sink at an ambient temperature of 20 degrees C.

DPP720 Mechanical / Winding Data

DPP720 Stack/Torque Sizes

Imperial Models	DPP726T-355	DPP727T-455	DPP728T-570
Metric Models	DPP726MT-251	DPP727MT-321	DPP728MT-403
Continuous Stall Torque (oz-in)	355	455	570
Continuous Stall Torque (Ncm)	250.67	321.28	402.48
Peak Torque (oz-in)	1440	2080	2880
Peak Torque (Ncm)	1016.78	1468.69	2033.57
Rotor Inertia (oz-in-sec ²)	0.1000	0.1100	0.1750
Rotor Inertia (g-cm ²)	7062.0	7768.2	12358.5
Thermal Resistance (C / Watts)	1.4	1.3	1.1
Weight (lbs)	13.0	15.0	21.0
Weight (Kg)	5.9	6.8	9.53
Number of Poles	4	4	4

DPP720 Winding Options

Imperial Models	355V60	355V90	355V120	455V60	455V90	455V120	570V60	570V90	570V120
Metric Models	251V60	251V90	251V120	321V60	321V90	321V120	403V60	403V90	403V120
Design Voltage (VDC)	60	90	120	60	90	120	60	90	120
Continuous Current (Amps)	12	8	6	13	8	6	15	11	8
Peak Current (Amps)	42	29	22	52	35	26	66	45	33
Voltage Constant ±10% (VDC/kRPM)	25.2	36.3	49.0	29.4	44.1	58.8	32.4	47.2	64.9
Torque Constant ±10% (oz-in / Amp)	34.2	49.2	66.2	39.8	59.6	79.5	43.8	63.8	87.8
Torque Constant ±10% (Ncm / Amp)	24.151	34.743	46.747	28.105	42.087	56.139	30.930	45.053	62.000
Motor Constant (oz-in / √ Watt)	40.32	42.99	46.39	49.82	54.25	57.78	59.74	67.21	70.58
Motor Constant (Nm / √ Watt)	4.56	4.86	5.24	5.63	6.13	6.53	6.75	7.59	7.97
Electrical Constant (msec)	2.14	2.43	2.83	2.16	2.57	2.91	1.99	2.52	2.78
Mechanical Constant (msec)	8.71	7.66	6.58	6.39	5.39	4.75	6.98	5.52	5.00
Resistance ±10% (Ohms)	0.72	1.31	2.04	0.64	1.21	1.89	0.54	0.9	1.55
Inductance ±10% (mH)	1.5	3.2	5.8	1.4	3.1	5.5	1.1	2.3	4.3



Your Genius. Our Drive.

ElectroCraft, Inc.
250 McCormick Road,
Gallipolis, Ohio 45631

Tel: (844) 338-8114
Fax: (812) 385-3013

Email: sales@electrocrafter.com
www.electrocrafter.com