

# BRUSHED DC MOTOR FAMILY

## Series KD Geared DC Motor



Mounting:	NEMA 2-11 Standard
Torque Rating:	5.8 to 237- oz-in [50 to 1673 mN-m]
Nominal Voltage:	90 Vdc
Operating Ambient Temp:	< 50°C
Gearing:	Heli-Spur Design
Leads:	2 leads 22AWG (approx. 16 inches [406.4 mm])
Note: Typical data subject to change without notification	

The HURST® KD high efficiency DC motor is a brush type, permanent-magnet motor. With the constant flux field, the speed-torque and current-torque curves are linear, and reliability and efficiency are improved. Two leads from the motor allow simple reversing.

The KD is furnished with a heavy duty integral gear unit with a wide range of reductions. Gearing is of "Heli-Spur" design with helical gears in the primary stage for quiet operation and hardened spur gears in the secondary stages.

**Notes:**

- 90Vdc is standard. Contact factory for other voltages. Motors are available with 6, 12, and 24Vdc windings. models.
- All performance data based upon operation with uniform DC current. Rectified and non-filtered AC change performance values.

Model	Part Number	Reduction	Track Speed Range Full Load (RPM)	Track Speed Range No Load (RPM)	Rated Torque @ 175 p/s (oz-in)	Rated Torque @ 175 p/s (mN-m)	Output Speed (RPM)	Input Power (watts)	Nominal Voltage (VDC)	Typical Full Load Current (amp) Low	Typical Full Load Current (amp) High	Weight (oz)	Weight (g)
KD	3402-011	1800	.9-1.0		250	1765.4	1	2.25	24	0.04	0.05	37	1048.9
KD	3402-001	1800	.95-1.2	1.1-1.5	237	1673.6	1.2	2.25	90	0.018	0.028	37	1048.9
KD	3402-002	900	2.3-2.5	2.6-3.2	206	1454.7	2.5	2.25	90	0.022	0.03	37	1048.9
KD	3402-003	600	3.1-3.7	3.9-4.5	190	1341.7	3.7	2.25	90	0.025	0.03	37	1048.9
KD	3402-014	300	5.5-6.1		176	1242.8	6	2.25	24	0.094	0.115	37	1048.9
KD	3402-004	300	6.3-7.4	7.7-90	166	1172.2	7.4	2.25	90	0.032	0.04	37	1048.9
KD	3402-005	180	11.5-12.2	14-15	150	1059.2	12.2	2.25	90	0.039	0.046	37	1048.9
KD	3402-016	60	27-31		60	423.7	31	2.25	24	0.155	0.18	37	1048.9
KD	3402-006	60	30-35	40-45	69	487.2	35	2.25	90	0.048	0.06	37	1048.9
KD	3402-007	30	65-75	80-90	35	247.2	75	2.25	90	0.048	0.06	37	1048.9
KD	3402-018	18	91-101		16.7	117.9	101	2.25	24	0.155	0.18	37	1048.9
KD	3402-008	18	120-135	145-170	22.5	158.9	135	2.25	90	0.048	0.06	37	1048.9
KD	3402-009	9	220-245	270-305	10	70.6	245	2.25	90	0.048	0.058	37	1048.9
KD	3402-010	6	345-385	430-475	7	49.4	385	2.25	90	0.05	0.058	37	1048.9



