C DC Motors

DC Motor 25W(□80mm)

25W DC Motor 25W(□80mm)

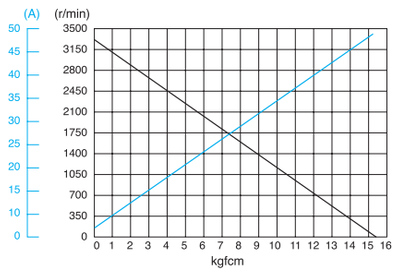
Motor Specification

Model 8DCG(W)□-25-30: Gear Type Shaft 8DCD□-25-30: D-Cut Type Shaft	Output	Voltage	Starting Current	Starting Torque		No Load		Rated Load			
						Current	Speed	Current	Speed	Torque	
	W	V	A	kgfcm	N.m	A	r/min	A	r/min	kgfcm	N.m
8DCG(W)12-25-30	25	12	48.00	15.50	1.500	1.80	3300	3.30	3100	0.811	0.081
8DCG(W)24-25-30	25	24	29.00	18.00	1.800	0.80	3050	1.90	2900	0.811	0.081
8DCG(W)90-25-30	25	90	10.00	21.50	2.150	0.04	3200	0.35	3000	0.811	0.081

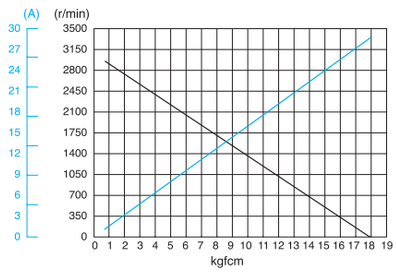
1) Enter the phase & voltage code in the in the box (□) within the motor model name.
2) Gear Type Shaft are for attaching Gearbox and D-Cut Type Shaft are for using motor only.

Performance Curve

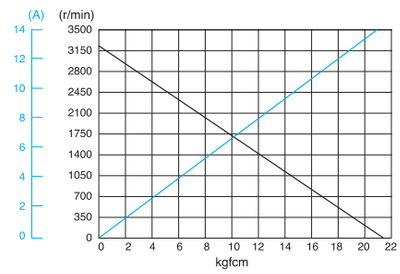
8DCG12-25-30



8DCG24-25-30



8DCG90-25-30



Max. Permissible Torque at Output Shaft of Gearbox

Motor Model	Gearbox Model	Gear Ratio		3	3.6	5	6	7.5	9	12.5	15	18	25	30	36	40	50	60	75	90	100	120	150	180	200	250	300	360
		r/min		1000	833	600	500	400	333	240	200	167	120	100	83	75	60	50	40	33	30	25	20	17	15	12	10	8
8DCG□-25-30	8GBK□ BMH	Rated	kgfcm	2.0	2.4	3.4	4.0	5.0	6.1	8.4	10.1	12.1	15.2	18.2	19.9	22.1	27.6	33.1	41.4	49.6	55.1	66.2	80.0	80.0	80.0	80.0	80.0	80.0
			N.m	0.20	0.24	0.33	0.40	0.49	0.59	0.82	0.99	1.19	1.49	1.79	1.95	2.16	2.70	3.24	4.05	4.86	5.40	6.49	7.84	7.84	7.84	7.84	7.84	7.84
		12V	kgfcm	38.6	46.3	64.3	77.2	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
		Starting	N.m	3.78	4.54	6.30	7.56	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84
		24V	kgfcm	44.8	53.8	74.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
		Starting	N.m	4.39	5.27	7.32	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84
		90V	kgfcm	53.5	64.2	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
		Starting	N.m	5.25	6.30	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84

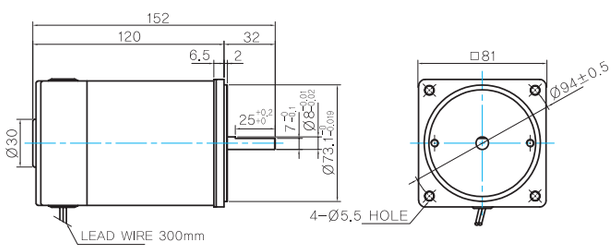
Motor Model	Gearbox Model	Gear Ratio		10	12	15	18	25	30	36	50	60
		r/min		300	250	200	167	120	100	83	60	50
8DCW□-25-30	8WD□BL/□BR/ □BRL	Rated	kgfcm	6.7	7.8	9.4	10.8	14.2	16.1	18.7	24.3	26.8
			N.m	0.65	0.76	0.92	1.06	1.39	1.57	1.83	2.38	2.62
		12V Starting	kgfcm	112.2	102.0	112.2	102.0	102.0	112.2	102.0	102.0	81.6
			N.m	11.00	10.00	11.00	10.00	10.00	11.00	10.00	10.00	8.00
		24V Starting	kgfcm	112.2	102.0	112.2	102.0	102.0	112.2	102.0	102.0	81.6
			N.m	11.00	10.00	11.00	10.00	10.00	11.00	10.00	10.00	8.00
		90V Starting	kgfcm	112.2	102.0	112.2	102.0	102.0	112.2	102.0	102.0	81.6
			N.m	11.00	10.00	11.00	10.00	10.00	11.00	10.00	10.00	8.00

1) Enter the phase & voltage code in the box (□) within the motor model name.
2) Enter the gear ratio in the box (□) within the Gearbox model name.
3) A colored background indicates gear shaft rotation in the same direction as the motor shaft; a white background indicates rotation in the opposite direction.
4) The rotating speed is calculated by dividing the motor's synchronous speed (50Hz: 1,500r/min, 60Hz: 1,800r/min) by the gear ratio.
The actual speed is 2~20% less than the displayed value, depending on the size of the load.

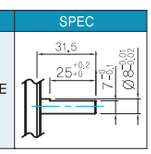
Dimensions

MOTOR ONLY

● MOTOR MODEL: 8DCD□-25-30

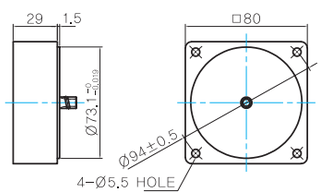


● MOTOR OUTPUT SHAFT

MODEL	SPEC
D-CUT TYPE	

INTER-DECIMAL GEARBOX

● MODEL: 8XD10□□

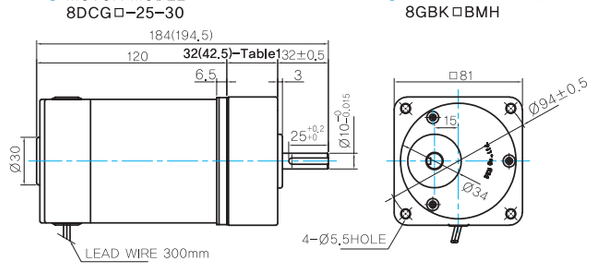


GEARED MOTOR

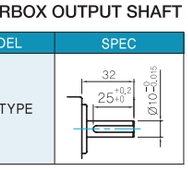
G TYPE GEARBOX

● MOTOR MODEL: 8DCG□-25-30

● GEARBOX MODEL: 8GBK□BMH



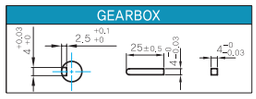
● GEARBOX OUTPUT SHAFT

MODEL	SPEC
KEY TYPE	

● 32(42.5)-Table1

SIZE(mm)	GEAR RATIO
32	8GBK3BMH – 8GBK18BMH
42.5	8GBK25BMH – 8GBK360BMH

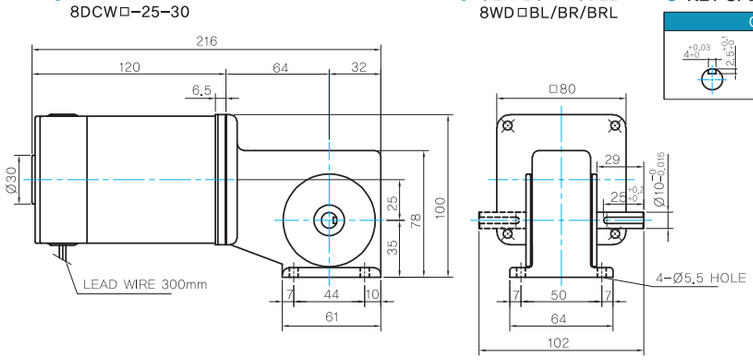
● KEY SPEC



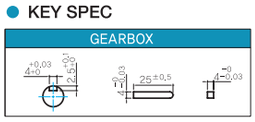
W TYPE GEARBOX

● MOTOR MODEL: 8DCW□-25-30

● GEARBOX MODEL: 8WD□BL/BR/BRL



● KEY SPEC



WEIGHT

PART		WEIGHT(Kg)
MOTOR		1.5
GEAR BOX	8GBK3BMH ~ 8GBK18BMH	0.48
	8GBK25BMH ~ 8GBK30BMH	0.61
	8GBK36BMH ~ 8GBK180BMH	0.67
	8GBK200BMH ~ 8GBK360BMH	0.63
	8WD□BL/BR/BRL	0.67
	8XD10□□	0.44

Motor Images

8DCD□-25-30	8DCG□-25-30+8GBK□BMH	8DCW□-25-30+8WD□BL