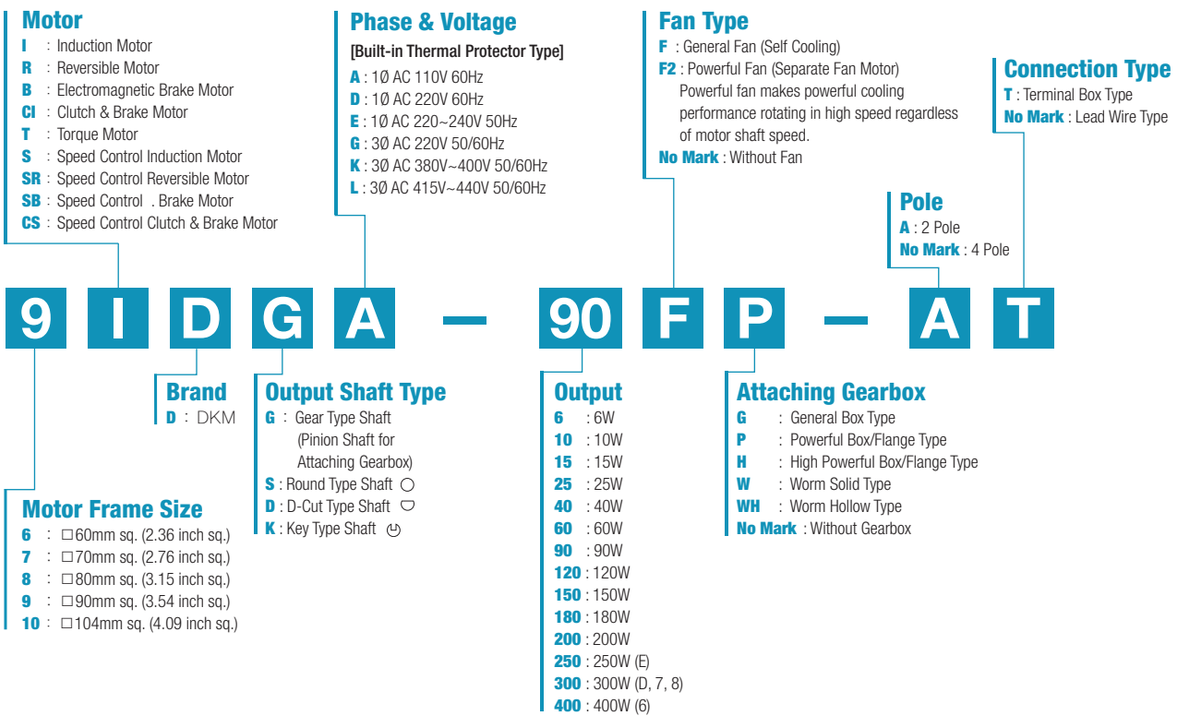
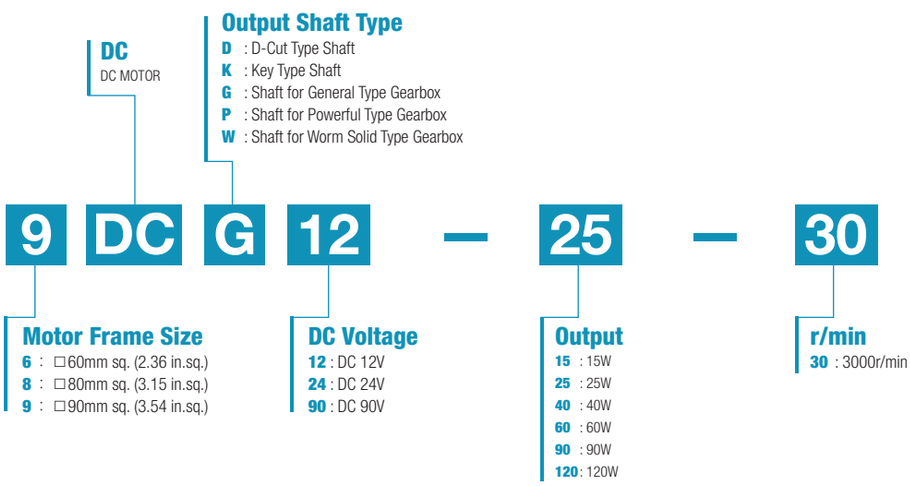
A Information

I Product Coding System

AC Motors



DC Motors



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Parallel Gearbox

Gearbox Frame Size
6 : □60mm sq. (2.36 in.sq.)
7 : □70mm sq. (2.76 in.sq.)
8 : □80mm sq. (3.15 in.sq.)
9 : □90mm sq. (3.54 in.sq.)

Frame Type
B : Box Type □
F : Flange Type
(Only available for powerful and high powerful type Gearbox)

Bearing Type
B : Ball Bearing
BM : Ball Bearing + Metal Bearing
M : Metal Bearing

9	P	B	K	36	B	H

Gear Type
G : General Gear
P : Powerful Gear
H : High Powerful Gear

Output Shaft Type
K : Key Type
D : D-Cut Type

Gear Ratio
36 : 1/36

Input Gear Type
H : Helical Gear

Worm Solid Gearbox

Gearbox Type
W : Worm Solid Type
WH : Worm Hollow Type

Gear Ratio
30 : 1/30

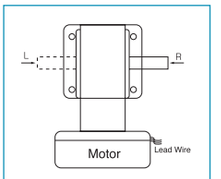
Direction of Output Shaft
L : Left
R : Right
RL : Bi-directional
※ No mark in Worm Hollow Type Gearbox

9	W	D	30	B	L

Gearbox Frame Size
8 : □ 80mm sq. (3.15 in.sq.)
9 : □ 90mm sq. (3.54 in.sq.)

Brand
D : DKM

Bearing Type
B : Ball Bearing
※ No mark in Worm Hollow Type Gearbox



※ Ref.
1. Direction of Output Shaft - L : Left R : Right
2. When direction of lead wire is right side of motor.

Worm Hollow Gearbox

Gearbox Type
WH : Worm Hollow Gearbox

Gear Ratio
30 : 1/30

9	WH	D	30	—	030

Gearbox Frame Size
9 : □ 90mm sq. (4.09 inch.sq.)
10 : □ 104mm sq. (4.09 inch.sq.)

Brand
D : DKM

Center Distance between Worm Wheel and Shaft
030 : 30mm
040 : 40mm

Inter-decimal Gearbox

X10 Inter-decimal Gearbox

G : "G" Type Shaft Motor (40W)
P : "P" Type Shaft Motor (60~120W)

9	X	D	10	G	Z

Gearbox Frame Size
8 : □ 80mm sq. (3.15 in.sq.)
9 : □ 90mm sq. (3.54 in.sq.)

Brand
D : DKM

Gear Ratio
10 : 1/10

Attaching Gearbox
G : General Type (Helical)
P : Powerful Type
H : High Powerful Type
Z : Worm Hollow Type
W : Worm Solid type

In case of requiring high gear reduction ratio that cannot be generated by single Gearbox, please use Inter-decimal Gearbox with general Gearbox. And please be advised that in this case only revolution speed of output shaft will reduce by 10:1 without increasing of maximum permissible torque.

C DC Motors

DC Motor 15W(□60mm)

15W DC Motor 15W(□60mm)

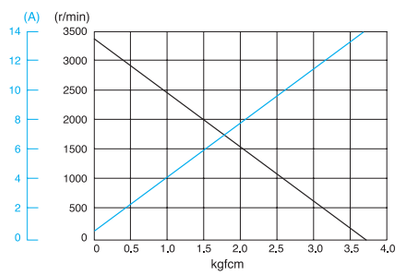
Motor Specification

Model 6DCG□-15-30: Gear Type Shaft 6DCD□-15-30: D-Cut Type Shaft	Output W	Voltage V	Starting Current A	Starting Torque kgfcm	 N.m	No Load Current A	 Speed r/min	Rated Load Current A	 Speed r/min	 Torque kgfcm	 N.m
6DCG12-15-30	15	12	13.50	3.70	0.370	0.60	3250	1.70	3000	0.49	0.049
6DCG24-15-30	15	24	7.70	4.10	0.410	0.40	3500	1.20	3000	0.49	0.049
6DCG90-15-30	15	90	1.90	4.50	0.450	0.06	3200	0.16	2900	0.49	0.049

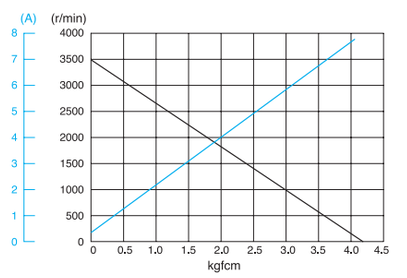
1) Enter the phase & voltage code in the in the box (□) within the motor model name.
2) Gear Type Shaft are for attaching Gearbox and D-Cut Type Shaft are for using motor only.

Performance Curve

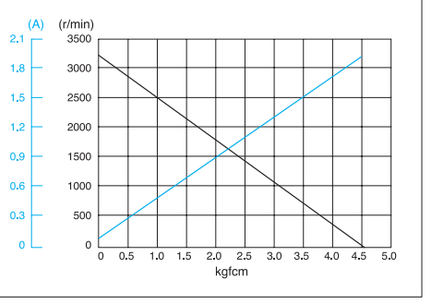
6DCG12-15-30



6DCG24-15-30



6DCG90-15-30



Max. Permissible Torque at Output Shaft of Gearbox

Motor Model	Gearbox Model	Gear Ratio		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200	250
		r/min		1000	833	600	500	400	333	300	240	200	167	150	120	100	83	75	60	50	40	33	30	25	20	17	15	12
6DCG□-15-30	6GBD□MH	Rated	kgfcm	1.2	1.5	2.0	2.4	3.1	3.7	4.1	5.1	6.1	7.3	7.4	9.2	11.0	13.2	14.7	16.7	20.0	25.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
			N.m	0.12	0.14	0.20	0.24	0.30	0.36	0.40	0.50	0.60	0.72	0.72	0.90	1.08	1.30	1.44	1.63	1.96	2.45	2.94	2.94	2.94	2.94	2.94	2.94	2.94
		12V Starting	kgfcm	9.2	11.1	15.4	18.4	23.0	27.6	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
			N.m	0.90	1.08	1.50	1.81	2.26	2.71	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94
		24V Starting	kgfcm	10.2	12.3	17.0	20.4	25.5	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
			N.m	1.00	1.20	1.67	2.00	25.0	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94
		90V Starting	kgfcm	11.2	13.4	18.7	22.4	28.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
			N.m	1.10	1.32	1.83	2.20	2.75	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94

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.

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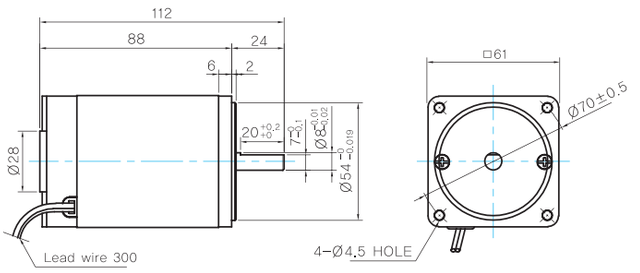
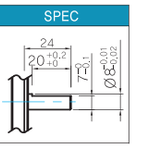
Dimensions

MOTOR ONLY

● MOTOR MODEL: 6DCD□-15-30



● MOTOR OUTPUT SHAFT

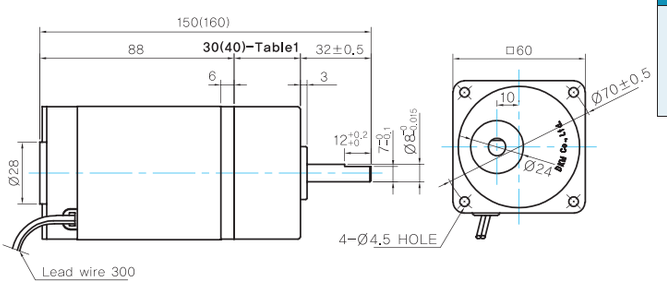
MODEL	SPEC
D-CUT TYPE	

GEARED MOTOR

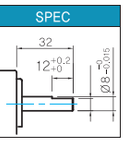
G TYPE GEARBOX

● MOTOR MODEL: 6DCG□-15-30

● GEARBOX MODEL: 6GBD□MH



● GEARBOX OUTPUT SHAFT

MODEL	SPEC
D-CUT TYPE	

WEIGHT

PART		WEIGHT(Kg)
MOTOR		0.7
GEAR BOX	6GBD3MH ~ 6GBD18MH	0.3
	6GBD20MH ~ 6GBD40MH	0.32
	6GBD50MH ~ 6GBD250MH	0.34

● 30(40)-Table1

SIZE(mm)	GEAR RATIO
30	6GBD3MH – 6GBD18MH
40	6GBD20MH – 6GBD250MH

Motor Images

6DCD□-15-30	6DCG□-15-30+6GBD□MH
	

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