B AC Motors

Induction Motor 15W(□70mm)

15W Induction Motor 15W(□70mm)

Motor Specification

Model 7IDG□-15G(-T): Gear Type Shaft 7IDD□-15(-T): D-Cut Type Shaft		Output	Voltage	Frequency	Poles	Duty	Starting Torque		Rated Load				Capacitor
									Speed	Current	Torque		
Lead Wire Type	Terminal Box Type	W	V	Hz			kgfcm	N.m	r/min	A	kgfcm	N.m	μF / VAC
7IDGA-15G	7IDGA-15G-T	15	1ø110	60	4	Cont.	0.77	0.077	1550	0.29	0.99	0.099	3.5 / 250
7IDGD-15G	7IDGD-15G-T	15	1ø220	60	4	Cont.	1.00	0.100	1600	0.18	1.00	0.100	1.2 / 450
7IDGE-15G	7IDGE-15G-T	15	1ø220	50	4	Cont.	0.90	0.090	1200	0.16	1.25	0.125	1.0 / 450
			1ø240				1.10	0.110		0.18	1.40	0.140	

1) Enter the phase & voltage code in the box (□) within the motor model name.
2) All models contain a built-in thermal protector.
3) Gear Type Shaft is for attaching Gearbox and D-Cut Type Shaft is for using motor only.

Max. Permissible Torque at Output Shaft of Gearbox

60Hz

Motor Model	Gearbox Model	Gear Ratio	3	3.6	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180
		r/min	600	500	300	240	200	144	120	100	72	60	50	36	30	24	20	18	15	12	10
7IDG□-15G	7GBK□BMH	kgfcm	2.5	3.0	5.0	6.2	7.5	10.4	12.5	14.9	18.8	22.5	24.5	34.0	40.8	50.0	50.0	50.0	50.0	50.0	50.0
		N.m	0.24	0.29	0.49	0.61	0.73	1.02	1.22	1.46	1.84	2.21	2.40	3.33	4.00	4.90	4.90	4.90	4.90	4.90	4.90

50Hz

Motor Model	Gearbox Model	Gear Ratio	3	3.6	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180
		r/min	500	416	250	200	166	120	100	83	60	50	41	30	25	20	16	15	12.5	10	8.3
7IDG□-15G	7GBK□BMH	kgfcm	3.5	4.2	7.0	8.7	10.5	14.5	17.4	20.9	26.3	31.5	34.3	47.6	50.0	50.0	50.0	50.0	50.0	50.0	50.0
		N.m	0.34	0.41	0.68	0.85	1.02	1.42	1.71	2.05	2.57	3.09	3.36	4.66	4.90	4.90	4.90	4.90	4.90	4.90	4.90

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.

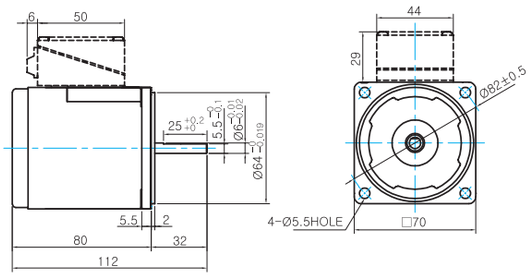
Motor Images

7IDD□-15	7IDD□-15-T	7IDG□-15G+7GBK□BMH
		

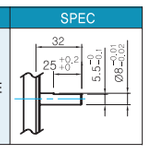
Dimensions

MOTOR ONLY

● MOTOR MODEL: 7IDD□-15(-T) (NO FAN)



● MOTOR OUTPUT SHAFT

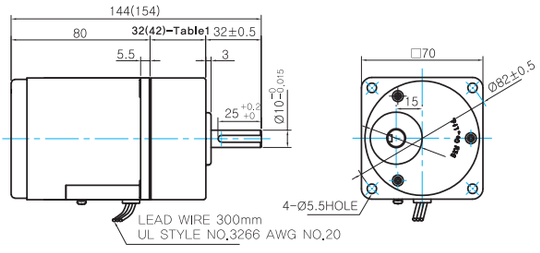
MODEL	SPEC
D-CUT TYPE	

GEARED MOTOR

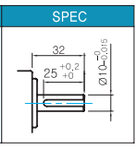
G TYPE GEARBOX

● MOTOR MODEL:
7IDG□-15G (NO FAN)

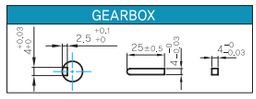
● GEARBOX MODEL:
7GBK□BMH



● GEARBOX OUTPUT SHAFT

MODEL	SPEC
KEY TYPE	

● KEY SPEC

GEARBOX


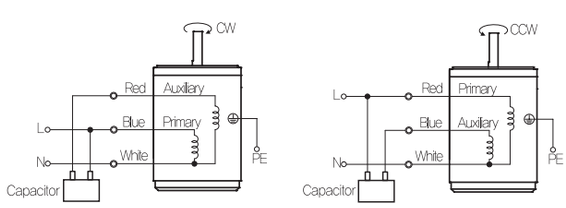
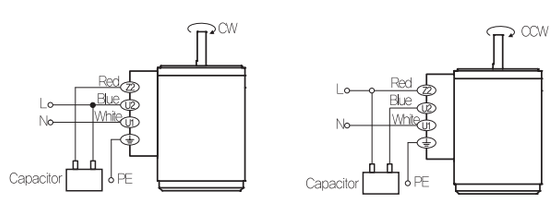
WEIGHT

PART		WEIGHT(Kg)
MOTOR		1.04
GEAR BOX	7GBK3BMH – 7GBK18BMH	0.36
	7GBK25BMH – 7GBK30BMH	0.44
	7GBK36BMH – 7GBK250BMH	0.5

● 32(42)-Table1

SIZE(mm)	GEAR RATIO
32	7GBK3BMH – 7GBK18BMH
42	7GBK25BMH – 7GBK180BMH

Connection Diagrams

Lead Wire Type	Terminal Box Type
	

1) The direction of motor rotation is as viewed from the shaft end of the motor.
2) CW represents the clockwise direction, while CCW represents the counterclockwise direction.
3) Change the direction of single phase motor rotation only after bringing the motor to a stop. If an attempt is made to change the direction of rotation while the motor is rotating, the motor may ignore the reversing command or change its direction after some delay.