

B AC Motors

Induction Motor 15W(□70mm)

15W

Induction Motor
15W(□70mm)

Motor Specification

| Model | | Output W | Voltage V | Frequency Hz | Poles | Duty | Starting Torque | | Rated Load | | | Capacitor μF / VAC | |
|--|-------------------|-------------|--------------|-----------------|-------|-------|-----------------|-------|----------------|--------------|---------------------|-----------------------|-----------|
| 71DGA-15G(-T): Gear Type Shaft 71DD□-15(-T): D-Cut Type Shaft | Terminal Box Type | | | | | | kgfcm | N.m | Speed r/min | Current A | Torque kgfcm N.m | | |
| Lead Wire Type | Terminal Box Type | | | | | | | | | | | | |
| 71DGA-15G | 71DGA-15G-T | 15 | 1φ110 | 60 | 4 | Cont. | 0.77 | 0.077 | 1550 | 0.29 | 0.99 | 0.099 | 3.5 / 250 |
| 71DGD-15G | 71DGD-15G-T | 15 | 1φ220 | 60 | 4 | Cont. | 1.00 | 0.100 | 1600 | 0.18 | 1.00 | 0.100 | 1.2 / 450 |
| 71DGE-15G | 71DGE-15G-T | 15 | 1φ220 | 50 | 4 | Cont. | 0.90 | 0.090 | 1200 | 0.16 | 1.25 | 0.125 | 1.0 / 450 |
| | | | 1φ240 | | | | 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 r/min | 3 | 3.6 | 6 | 7.5 | 9 | 12.5 | 15 | 18 | 25 | 30 | 36 | 50 | 60 | 75 | 90 | 100 | 120 | 150 | 180 | |
|-------------|---------------|---------------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | kgfcm | 500 | 300 | 240 | 200 | 144 | 120 | 100 | 72 | 60 | 50 | 36 | 30 | 24 | 20 | 18 | 15 | 12 | 10 | |
| 71DGD-15G | 7GBK□BMH | N.m | 0.24 | 0.29 | 0.49 | 0.61 | 0.73 | 1.02 | 1.22 | 1.46 | 1.84 | 2.21 | 2.45 | 34.0 | 40.8 | 49.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 |

50Hz

| Motor Model | Gearbox Model | Gear Ratio r/min | 3 | 3.6 | 6 | 7.5 | 9 | 12.5 | 15 | 18 | 25 | 30 | 36 | 50 | 60 | 75 | 90 | 100 | 120 | 150 | 180 | |
|-------------|---------------|---------------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | kgfcm | 500 | 416 | 250 | 200 | 166 | 120 | 100 | 83 | 60 | 50 | 41 | 30 | 25 | 20 | 16 | 15 | 12.5 | 10 | 8.3 |
| 71DGD-15G | 7GBK□BMH | 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 | 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.

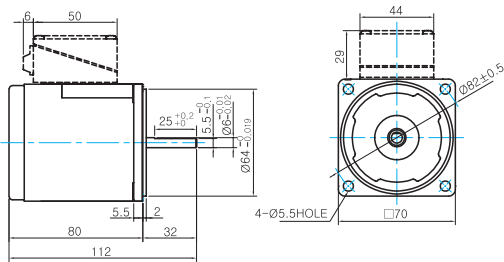
Motor Images



Dimensions

MOTOR ONLY

- MOTOR MODEL: 7IDD□-15(-T) (NO FAN)



MOTOR OUTPUT SHAFT

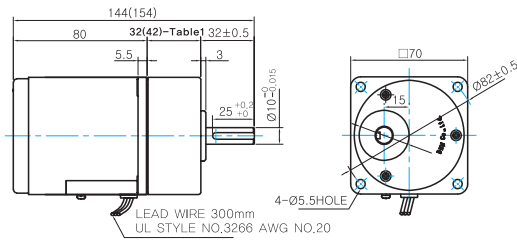
| MODEL | SPEC |
|------------|------|
| D-CUT TYPE | |

GEARED MOTOR

G TYPE GEARBOX

- MOTOR MODEL: 7IDG□-15G (NO FAN)

- GEARBOX MODEL: 7GBK□BMH



LEAD WIRE 300mm
UL STYLE NO.3268 AWG NO.20

GEARBOX OUTPUT SHAFT

| MODEL | SPEC |
|----------|------|
| KEY TYPE | |

KEY SPEC

| GEARBOX | |
|---------|--|
| | |

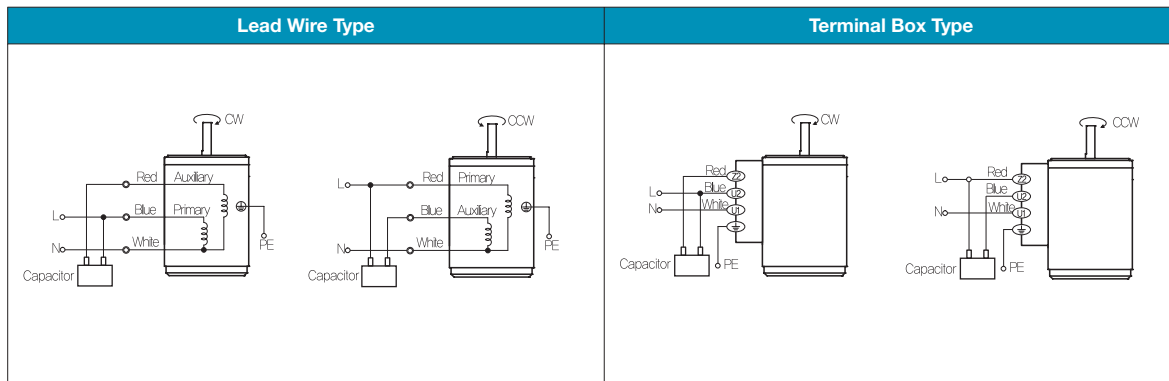
WEIGHT

| 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



- The direction of motor rotation is as viewed from the shaft end of the motor.
- CW represents the clockwise direction, while CCW represents the counterclockwise direction.
- 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.