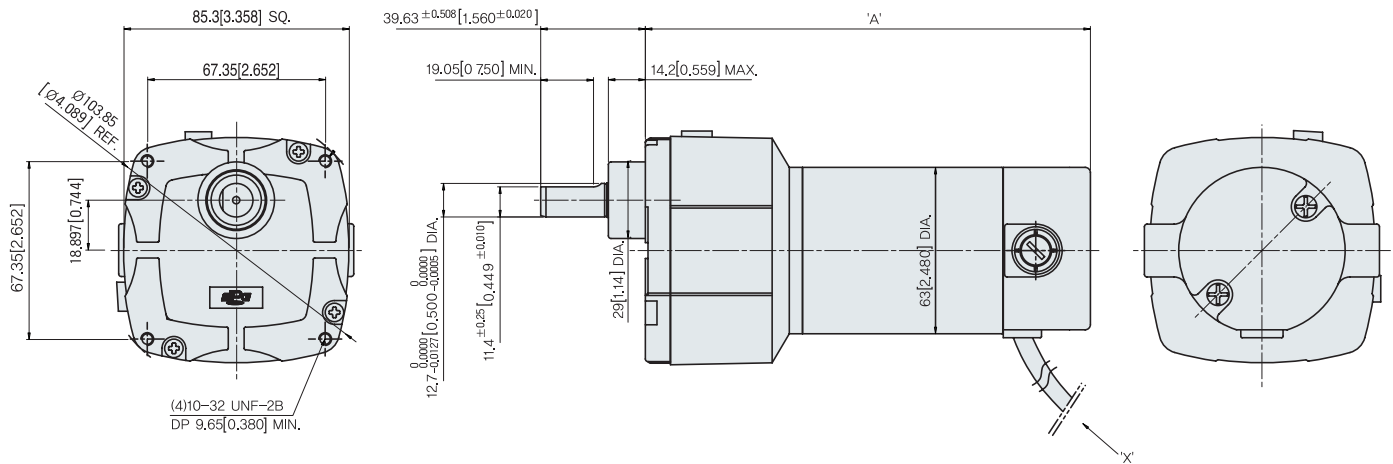


SPECIAL TYPE

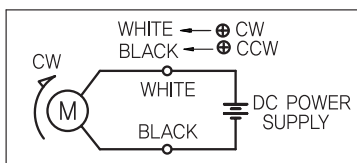
# BS2 □ SERIES DC GEARED MOTOR

## MOTOR DIMENSION

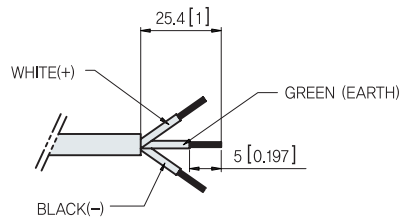
UNIT : mm[inch]



## CIRCUIT DIAGRAM



(THE DIRECTION OF MOTOR ROTATION IS AS VIEWED FROM THE OUTPUT SHAFT END OF THE MOTOR)



VIEW "X"

## STANDARD FEATURES

- Vented gearhousing for extended seal life.
- Industrial lip type seals on motors and output shaft.
- Needle bearing on output shaft for increased radial load capacity and long life.
- Permanently lubricated gearing utilizing oil for long life.
- Helical pinion accurately cut on motor shaft for maximum strength and minimum noise.

21C, for World geared motor!



## MOTOR SPECIFICATION

| Type    | Voltage | Output | No Load |         | Rated Load |              |         | Dimension  | Run Duty | Weight    |
|---------|---------|--------|---------|---------|------------|--------------|---------|------------|----------|-----------|
|         | V       | W      | Speed   | Current | Speed      | Torque       | Current | A          |          |           |
|         |         |        | RPM     | A       | RPM        | kg-cm(lb-in) | A       | mm/inch    | Hr       | kg(lb)    |
| BS23DA□ | 24      | 26     | 2800    | 0,3 max | 2450       | 1,03(0,89)   | 1,8     | 152,5/6,00 | 2000     | 1,9(4,19) |
| BS23DB□ | 130     | 26     | 2800    | 0,3 max | 2500       | 1,01(0,88)   | 0,4     | 152,5/6,00 | 2000     | 1,9(4,19) |
| BS24DA□ | 24      | 44     | 2800    | 0,3 max | 2400       | 1,80(1,56)   | 2,6     | 168,5/6,63 | 2000     | 2,1(4,63) |
| BS24DB□ | 130     | 44     | 2800    | 0,3 max | 2450       | 1,75(1,52)   | 0,5     | 168,5/6,63 | 2000     | 2,1(4,63) |

※ Run duty is valued at rated Voltage and No load

## Geared motor rated torque

| TYPE    | GEAR RATIO | 6          | 12          | 18          | 30          | 60          | 90          | 180         | 300         | 450         |
|---------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| BS23DA□ | rpm        | 408,3      | 204,2       | 136,1       | 81,7        | 40,8        | 27,2        | 13,6        | 8,2         | 5,4         |
|         | kg-cm      | 5,30       | 10,60       | 15,90       | 26,49       | 46,09       | 46,09       | 46,09       | 46,09       | 46,09       |
|         | N-m(lb-in) | 0,52(4,60) | 1,04(9,20)  | 1,56(13,80) | 2,60(23,00) | 4,52(40,00) | 4,52(40,00) | 4,52(40,00) | 4,52(40,00) | 4,52(40,00) |
| BS23DB□ | rpm        | 416,7      | 208,3       | 138,9       | 83,3        | 41,7        | 27,8        | 13,9        | 8,3         | 5,6         |
|         | kg-cm      | 5,20       | 10,39       | 15,59       | 25,98       | 46,09       | 46,09       | 46,09       | 46,09       | 46,09       |
|         | N-m(lb-in) | 0,51(4,51) | 1,02(9,02)  | 1,53(13,53) | 2,55(22,55) | 4,52(40,00) | 4,52(40,00) | 4,52(40,00) | 4,52(40,00) | 4,52(40,00) |
| BS24DA□ | rpm        | 400,0      | 200,0       | 133,3       | 80,0        | 40,0        | 26,7        | 13,3        | 8,0         | 5,3         |
|         | kg-cm      | 9,26       | 18,52       | 27,78       | 46,09       | 46,09       | 46,09       | 46,09       | 46,09       | 46,09       |
|         | N-m(lb-in) | 0,91(8,04) | 1,81(16,08) | 2,72(24,11) | 4,52(40,00) | 4,52(40,00) | 4,52(40,00) | 4,52(40,00) | 4,52(40,00) | 4,52(40,00) |
| BS24DB□ | rpm        | 408,3      | 204,2       | 136,1       | 81,7        | 40,8        | 27,2        | 13,6        | 8,2         | 5,4         |
|         | kg-cm      | 9,00       | 18,00       | 27,01       | 45,01       | 46,09       | 46,09       | 46,09       | 46,09       | 46,09       |
|         | N-m(lb-in) | 0,88(7,81) | 1,76(15,63) | 2,65(23,44) | 4,41(39,07) | 4,52(40,00) | 4,52(40,00) | 4,52(40,00) | 4,52(40,00) | 4,52(40,00) |

■ The peak torque of the gear head is 46.09 kg-cm(40.00 lb-in)

■ The □ mark indicates the ratio.

■ ■ color indicates that the output shaft of the geared motor rotates in the opposite direction as the output shaft of the motor. Others indicates the rotation in the same direction.