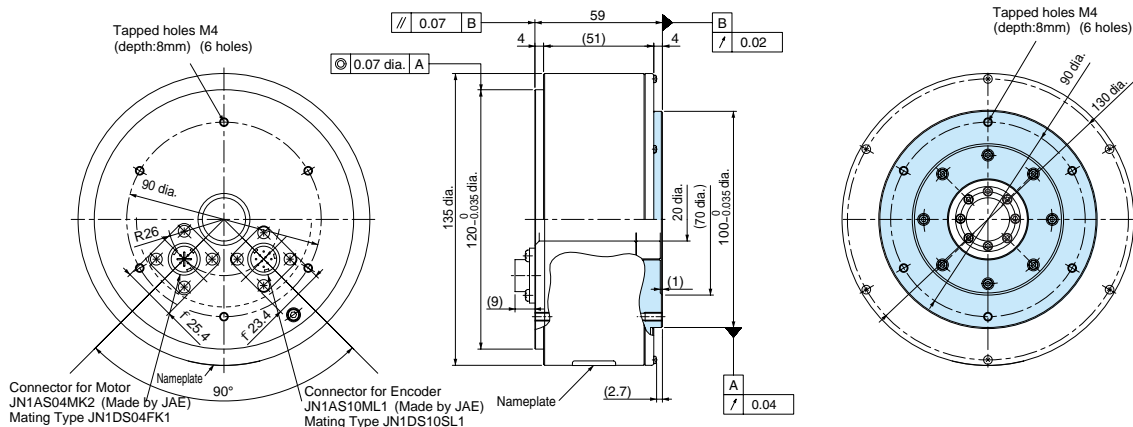


# - Dimensions Units : mm

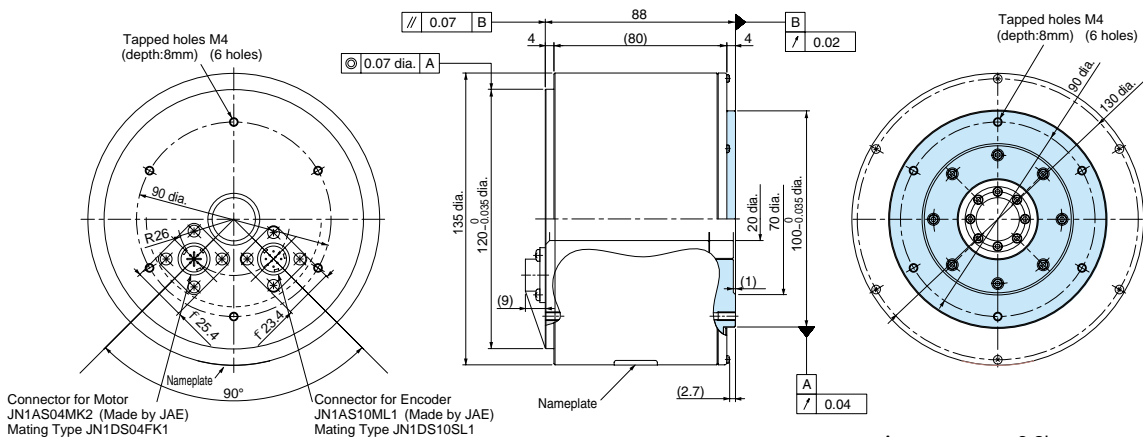
Rotating part

## SGMCS-02B□C



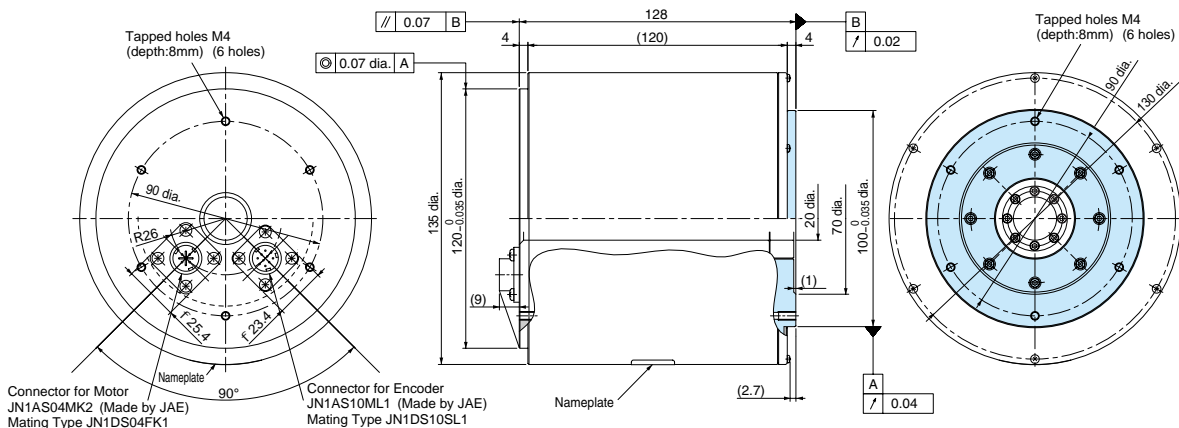
Approx.mass: 5.0kg

## SGMCS-05B□C



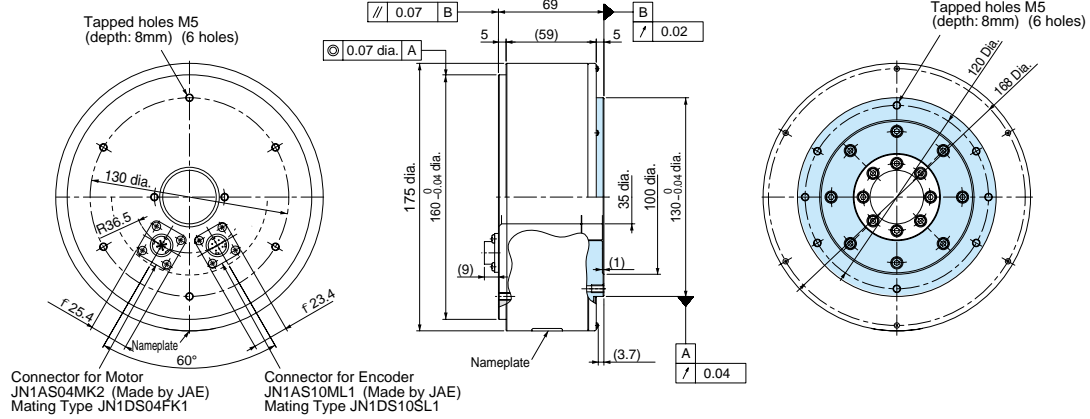
Approx.mass: 6.2kg

## SGMCS-07B□C

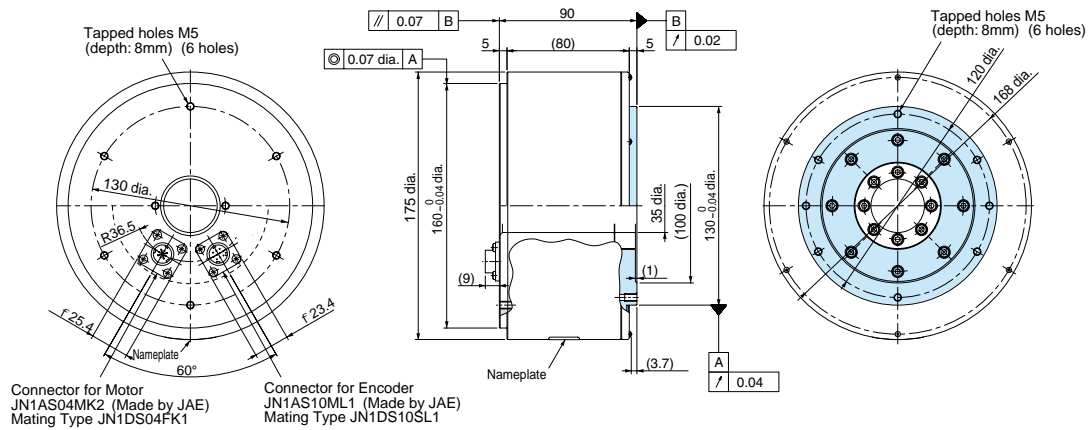


Approx.mass: 8.6kg

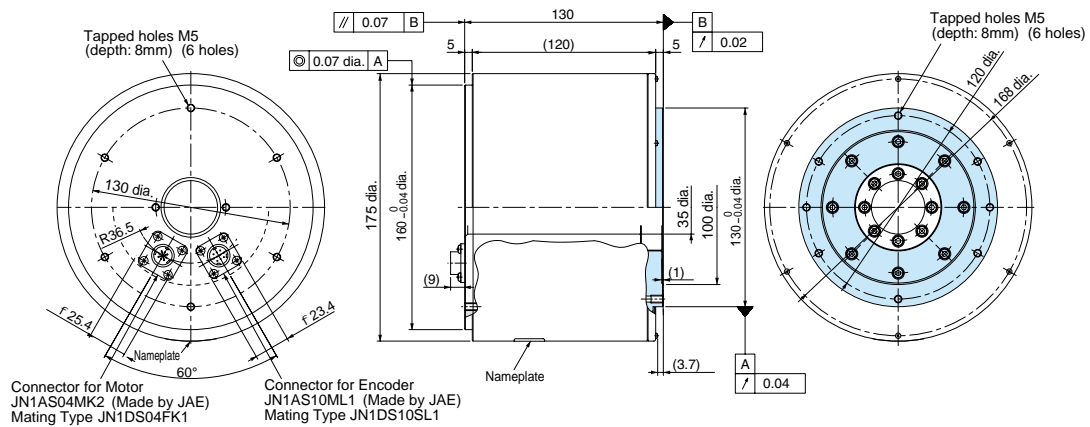
## SGMCS-04C



## SGMCS-10C



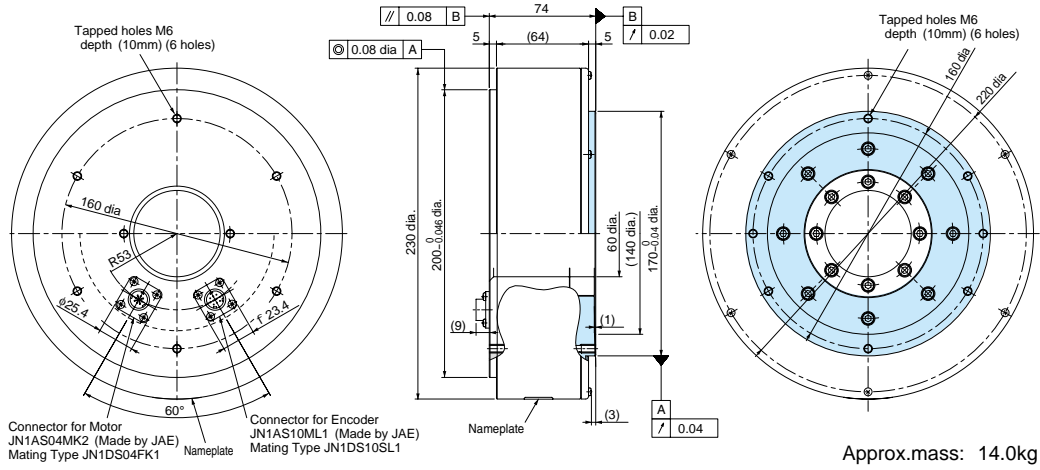
## SGMCS-14C



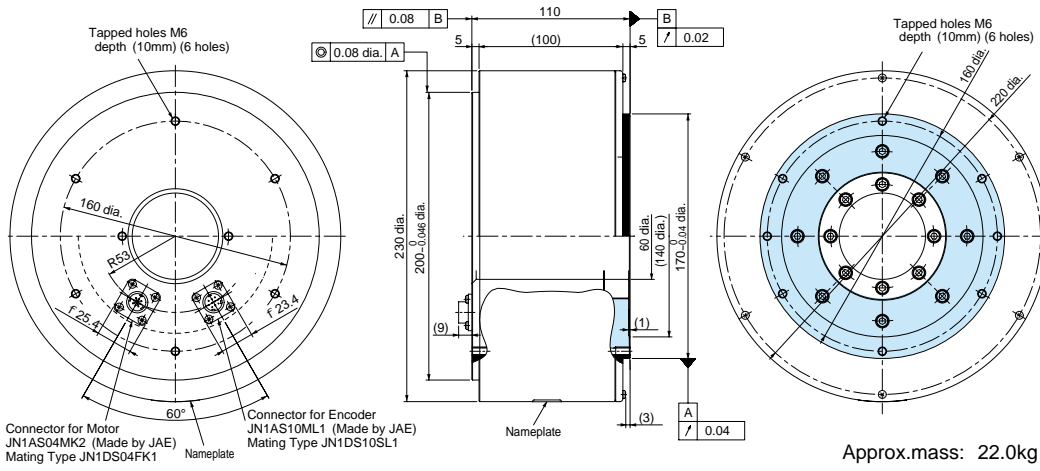
# - Dimensions Units : mm

Rotating part:

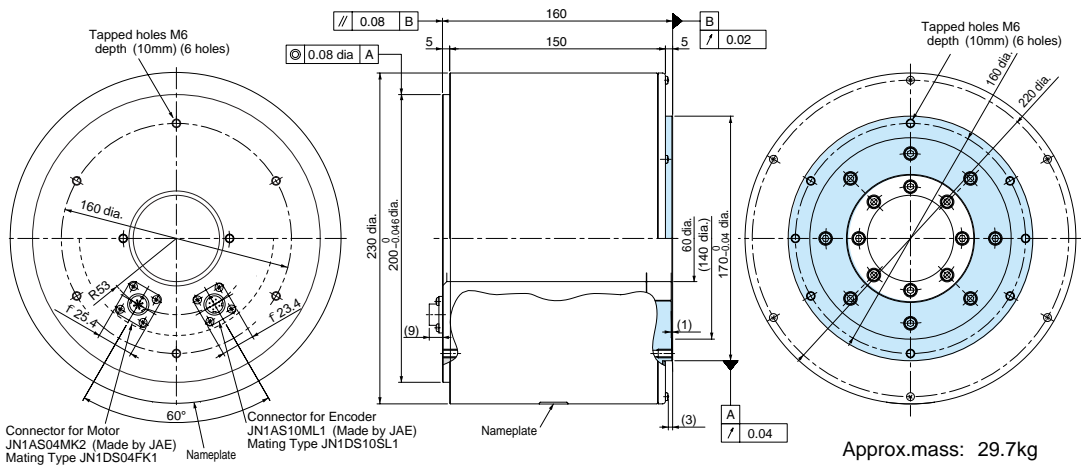
## SGMCS-08D□□C



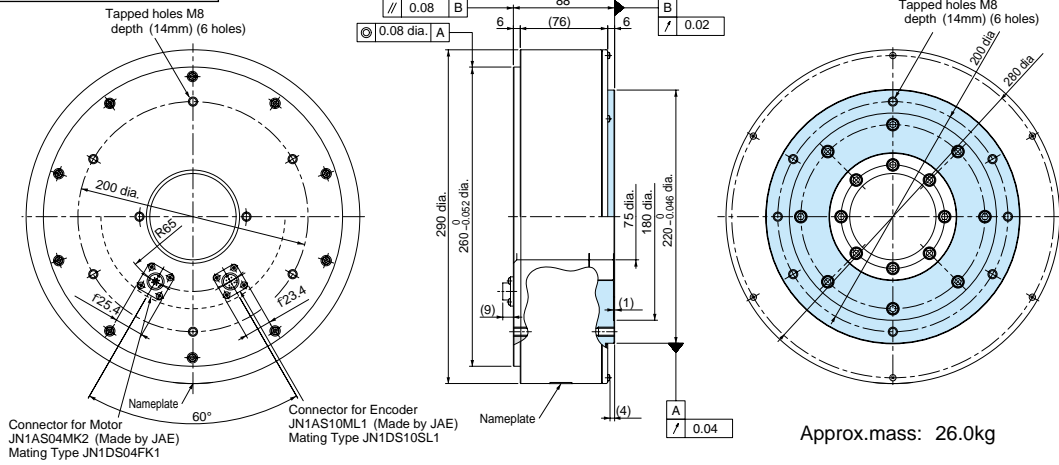
## SGMCS-17D□□C



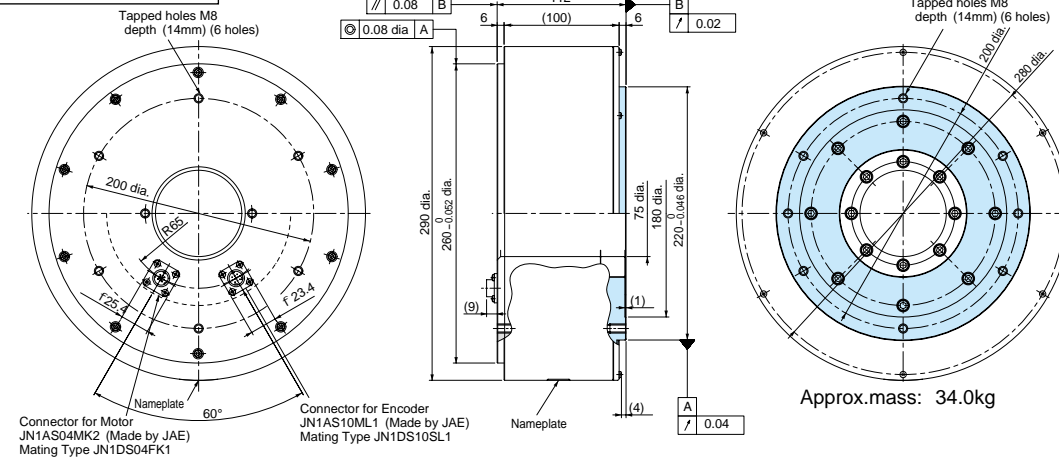
## SGMCS-25D□□C



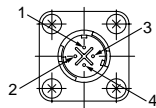
## SGMCS-16E□B



## SGMCS-35E□B

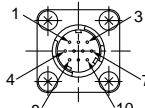


### Motor connector (for small-capacity series)



|   |                   |                |
|---|-------------------|----------------|
| 1 | Phase U           | Red            |
| 2 | Phase V           | White          |
| 3 | Phase W           | Blue           |
| 4 | FG (Frame Ground) | Green (Yellow) |

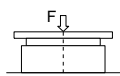
### Encoder connector (for small-capacity series)



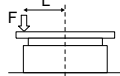
|    |                   |                  |
|----|-------------------|------------------|
| 1  | PS                | Light Blue       |
| 2  | *PS               | Light Blue White |
| 3  | —                 | —                |
| 4  | PG5V              | Red              |
| 5  | —                 | —                |
| 6  | —                 | —                |
| 7  | FG (Frame Ground) | Shield           |
| 8  | —                 | —                |
| 9  | PG0V              | Black            |
| 10 | —                 | —                |

### Load Capacity

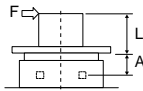
The following figures show the load capacity during motor operation. Design motors so as not to exceed the values in the table for thrust and moment loading.



Force: F  
Thrust Loading:  $F_a = F + \text{Load's Mass}$   
Moment Loading:  $M = 0$



Force: F  
Thrust Loading:  $F_a = F + \text{Load's Mass}$   
Moment Loading:  $M = F \times L$



Force: F  
Thrust Loading:  $F_a = \text{Load's Mass}$   
Moment Loading:  $M = F \times (L + A)$

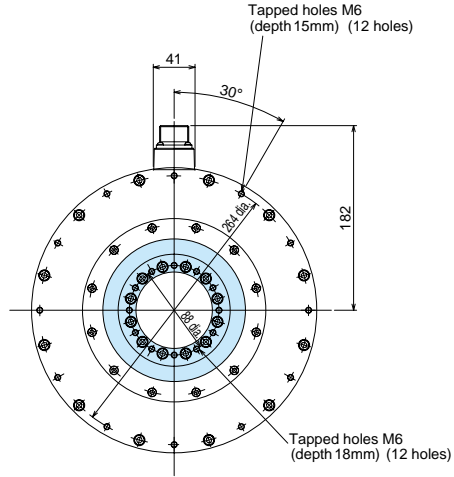
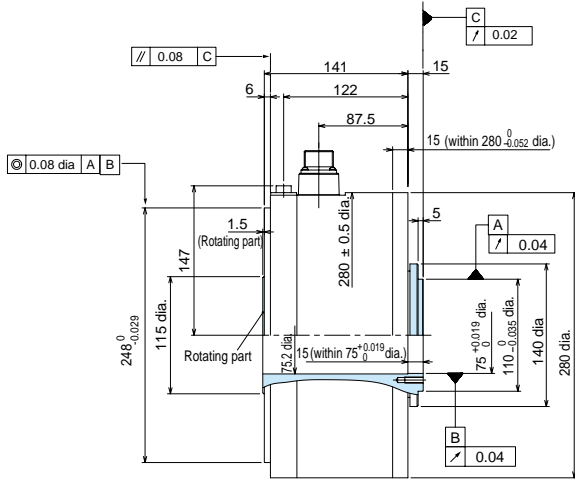
(See the table below for height of A.)

| Servomotor Type SGMCS-□□      | 02B□C | 05B□C | 07B□C | 04C□C | 10C□C | 14C□C | 08D□C | 17D□C | 25D□C | 16E□B | 35E□B |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Dimension A mm                | 16.5  | 56.5  | 96.5  | 15.0  | 55.0  | 95.0  | 19.0  | 69.0  | 119.0 | 23.5  | 73.5  |
| Allowable Thrust Load $F_a$ N |       | 1500  |       |       | 3300  |       |       | 4000  |       | 11000 |       |
| Allowable Moment Load M N·m   | 40    | 50    | 64    | 70    | 75    | 90    | 93    | 103   | 135   | 250   | 320   |

**- Dimensions Units : mm**

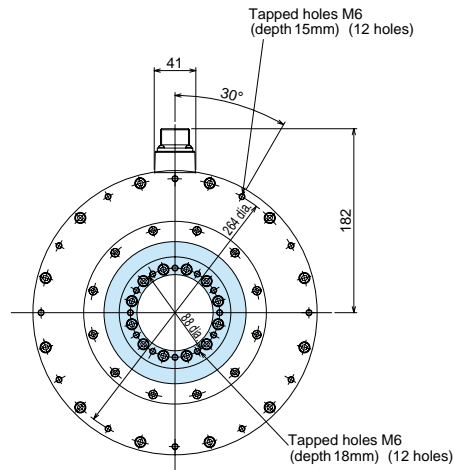
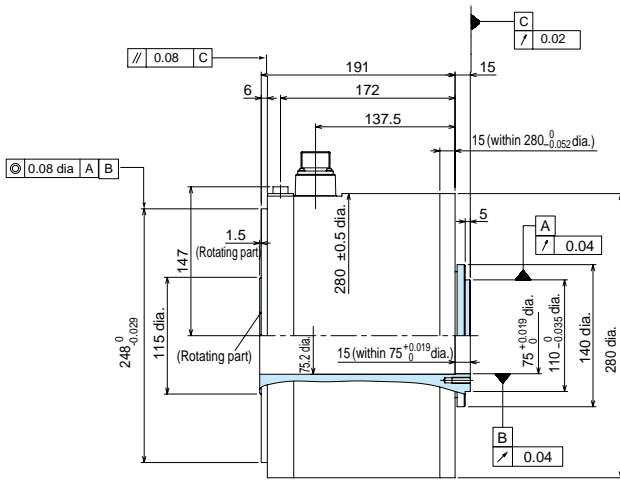
(Rotating part)

**SGMCS-45M**



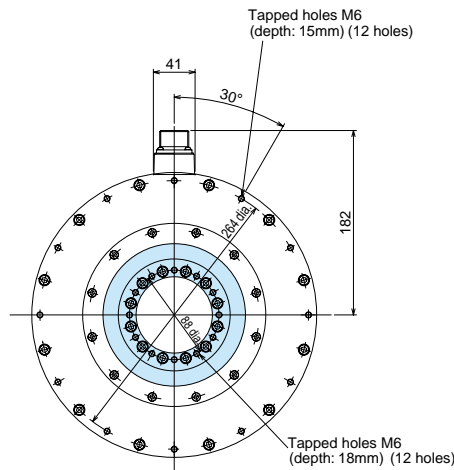
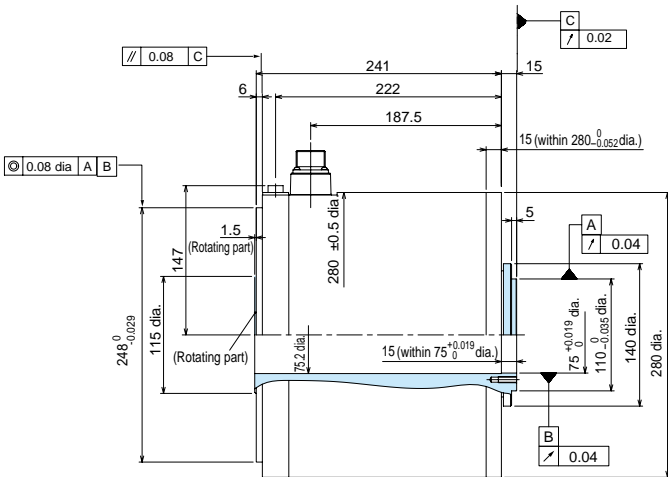
Approx.mass: 38kg

**SGMCS-80M**



Approx.mass: 45kg

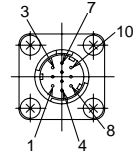
**SGMCS-1AM**



Approx.mass: 51kg

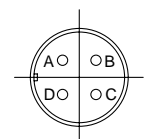
**Encoder connector**

Model: JN1AS10ML1  
(Made by Japan Aviation Electronics Industry, Ltd.)



|    |                      |
|----|----------------------|
| 1  | PS                   |
| 2  | *PS                  |
| 3  | —                    |
| 4  | PG5V                 |
| 5  | —                    |
| 6  | —                    |
| 7  | FG<br>(Frame Ground) |
| 8  | —                    |
| 9  | PG0V                 |
| 10 | —                    |

**Motor connector**

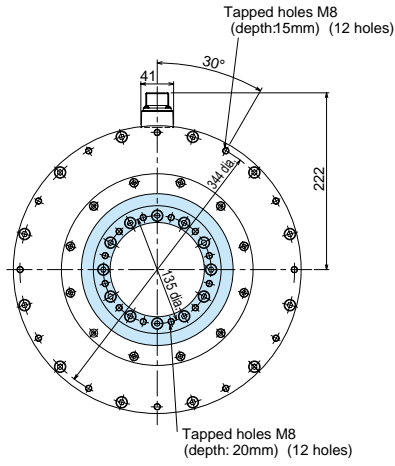
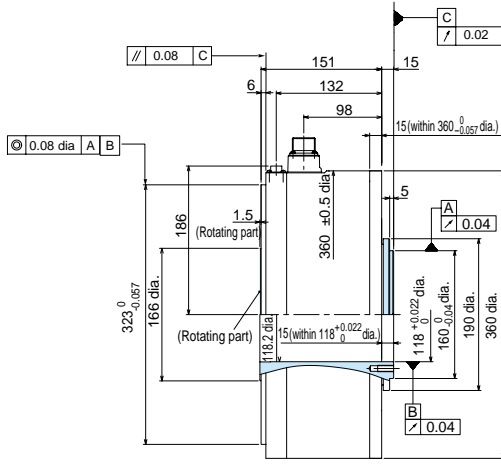


|   |                      |
|---|----------------------|
| A | Phase U              |
| B | Phase V              |
| C | Phase W              |
| D | FG<br>(Frame Ground) |

# - Dimensions Units : mm

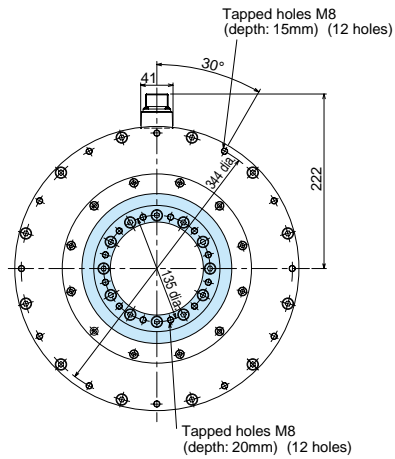
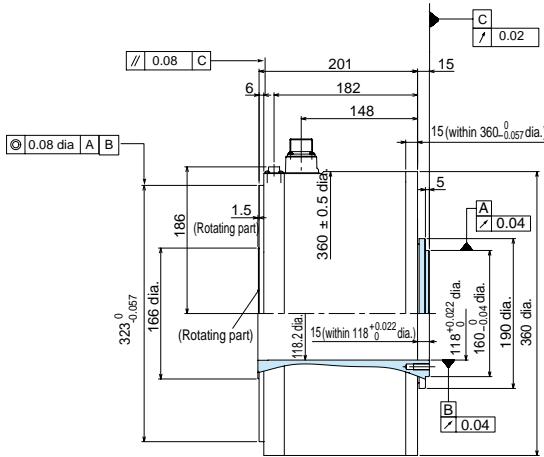
Rotating part:

## SGMCS-80N



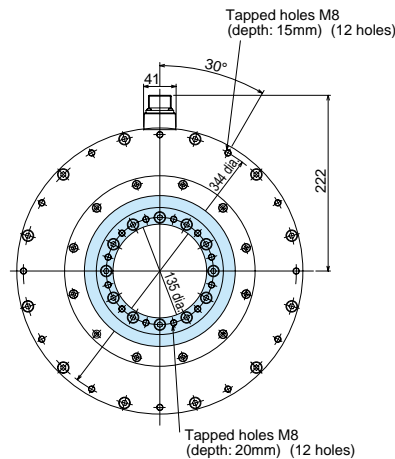
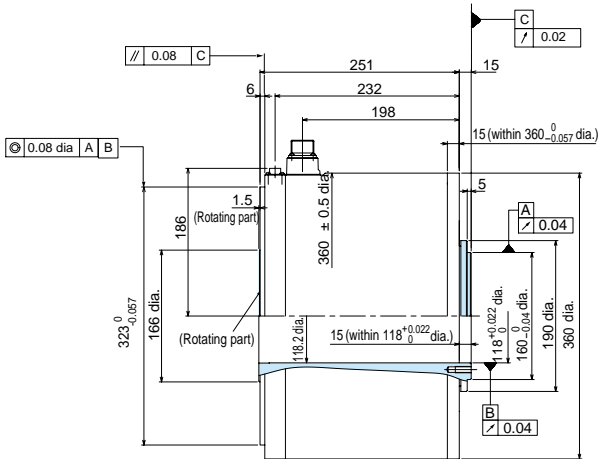
Approx.mass: 50kg

## SGMCS-1EN



Approx.mass: 68kg

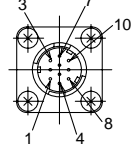
## SGMCS-2ZN



Approx.mass: 86kg

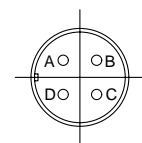
### Encoder connector

Model: JN1AS10ML1  
(Made by Japan Aviation Electronics Industry, Ltd.)



|    |                      |
|----|----------------------|
| 1  | PS                   |
| 2  | *PS                  |
| 3  | —                    |
| 4  | PG5V                 |
| 5  | —                    |
| 6  | —                    |
| 7  | FG<br>(Frame Ground) |
| 8  | —                    |
| 9  | PG0V                 |
| 10 | —                    |

### Motor connector



|   |                      |
|---|----------------------|
| A | Phase U              |
| B | Phase V              |
| C | Phase W              |
| D | FG<br>(Frame Ground) |