

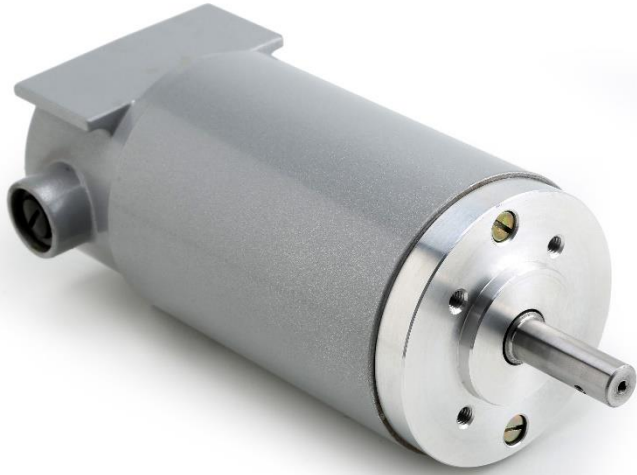
# PERMANENT MAGNET DC MOTORS

## PRODUCT CATALOGUE

MoveMatic offers a wide range of standard and custom built motors, and allied products, to support a wide range of industrial applications.



# Permanent Magnet DC servo motors, Geared Motors, FHP motors.



## Product Information:

Power (Watts): 90 to 1200

Torque (Ncm): 3 to 100

Speed (rpm): 300 to 4000

Operating Voltage (V): 6 to 220

Permanent Magnet DC Servo Motors are used for many motion control application viz. Coveyer Belt, Stirrer, Switch Gear, Special Pumps etc. We make motors suitable for vairable voltage and speed as per end application requirement.

We give geared motor solution including in line gearbox (Planetary Geared Motors), Helical Gearbox (Spur Geared motors), Worm Geared motors. Feedback solution like Encoder and Tachogenerators are also available which gives accurate feedback to the systems to control motor behaviour. We make Rare Earth magnet motors which give high Torque to inertia ratio delivering High torque in compact motors.

## Application:

- Stirrer & Dosing
- Wire Cut Machines
- Motorized Door
- Gate Closing / Opening
- X & Y Axis Drive
- Film Winding & Printing
- Packaging Machinery
- Printing Machine
- Robots
- Pick & Place Application
- Conveyor
- Screw Jack
- Wheel Chair
- Switch Gear
- Powder Filling (Start / Stop cycles)  
Machines for Tooth Powder &  
Cosmetics powder



# Permanent Magnet DC Servo Motors

| Series   | Motor Model | Motor Diameter (mm) | Torque (Ncm) | With Planetary Gear Box of ratio                                                                                                                                                      |       |          |          | With worm gear box of ratio |       |          |          |
|----------|-------------|---------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------|----------|-----------------------------|-------|----------|----------|
|          |             |                     |              | 4.5:1                                                                                                                                                                                 | 20:01 | 50:01:00 | 90:01:00 | 10:01                       | 16:01 | 24:01:00 | 48:01:00 |
| A Series | AA          | 41                  | 5.7          | -                                                                                                                                                                                     | -     | -        | -        | -                           | -     | -        | -        |
|          | AB          |                     | 12           | -                                                                                                                                                                                     | -     | -        | -        | -                           | -     | -        | -        |
| B Series | BA          | 52                  | 10           | -                                                                                                                                                                                     | -     | -        | -        | -                           | -     | -        | -        |
| C Series | CA          | 59                  | 14           | 55                                                                                                                                                                                    | 235   | 595      | 1070     | 60                          | 100   | 150      | 300      |
|          | CB          |                     | 28           | 110                                                                                                                                                                                   | 475   | 1190     | 2140     | 125                         | 200   | 300      | 605      |
|          | CC          |                     | 50           | 200                                                                                                                                                                                   | 850   | 2125     | 3000     | 225                         | 360   | 540      | 1080     |
| D Series | DA          | 70                  | 30           | 120                                                                                                                                                                                   | 510   | 1275     | -        | 135                         | 215   | 320      | 645      |
|          | DB          |                     | 50           | 200                                                                                                                                                                                   | 850   | 2125     | -        | 225                         | 360   | 540      | 1080     |
|          | DC          |                     | 75           | 300                                                                                                                                                                                   | 1275  | 3000     | -        | 335                         | 540   | 810      | 1620     |
| E Series |             | 83                  |              |                                                                                                                                                                                       |       |          |          |                             |       |          |          |
|          | EB          |                     | 65           | 260                                                                                                                                                                                   | 1100  | 3000     | -        | 290                         | 465   | 700      | 1400     |
|          | EC          |                     | 90           | 365                                                                                                                                                                                   | 1530  | -        | -        | 405                         | 650   | 970      | 1800     |
| T Series | TP          | 83                  | 110          | 445                                                                                                                                                                                   | 1870  | -        | -        | 495                         | 790   | 1185     | -        |
| G Series | GA          | 112                 | 100          | In-Built Tachogenrator, Encoder, brake, Gearbox and Servo drives can be offered. Speed Controllers for the motor model AA, AB, CA, CB, CC, DA, DB are available in 24V DC and 180V DC |       |          |          |                             |       |          |          |
|          | GB          |                     | 200          |                                                                                                                                                                                       |       |          |          |                             |       |          |          |
|          | GC          |                     | 300          |                                                                                                                                                                                       |       |          |          |                             |       |          |          |
|          | GD          |                     | 400          |                                                                                                                                                                                       |       |          |          |                             |       |          |          |
|          | GE          |                     | 500          |                                                                                                                                                                                       |       |          |          |                             |       |          |          |
|          | GF          |                     | 600          |                                                                                                                                                                                       |       |          |          |                             |       |          |          |
|          | GH          |                     | 700          |                                                                                                                                                                                       |       |          |          |                             |       |          |          |
|          | GJ          |                     | 800          |                                                                                                                                                                                       |       |          |          |                             |       |          |          |
|          | GK          |                     | 900          |                                                                                                                                                                                       |       |          |          |                             |       |          |          |

In-built Tachogenerator, Encoder, Brake, Gearbox and Servo Drives can be offered. Speed controllers for the Motor Model AA, AB, CA, CB, CC, DA & DB are available in 24VDC & 180VDC.

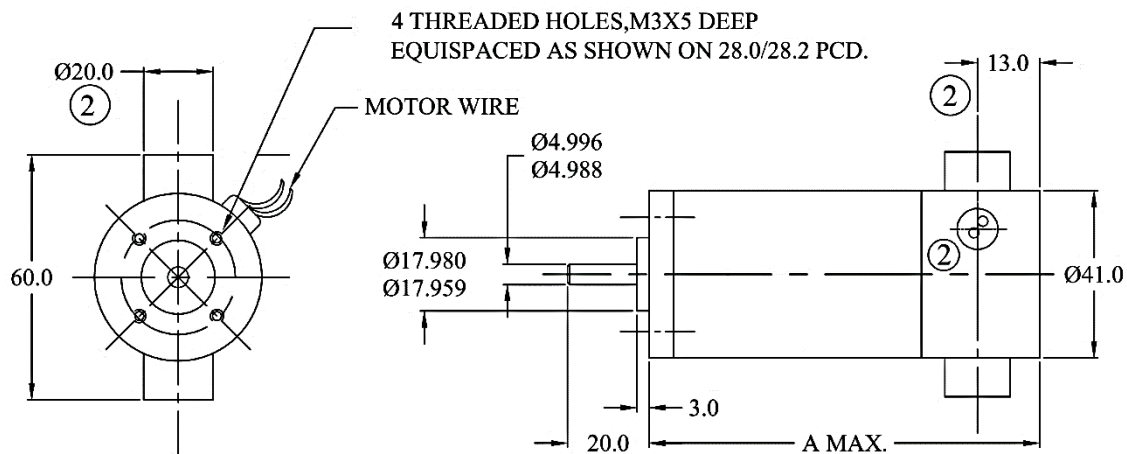
## Permanent Magnet DC servo motors with Rare Earth Magnets:

| Motor Model | Motor Diameter(mm) | Torque (Ncm) | With Planetary Gear Box of ratio |       |          |          | With worm gear box of ratio |       |          |          |
|-------------|--------------------|--------------|----------------------------------|-------|----------|----------|-----------------------------|-------|----------|----------|
|             |                    |              | 4.5:1                            | 20:01 | 50:01:00 | 90:01:00 | 10:01                       | 16:01 | 24:01:00 | 48:01:00 |
| RIU         | 45                 | 20           | 81                               | 340   | 850      | 1530     | 90                          | 140   | 215      | 430      |
| RKR         | 60                 | 32           | 130                              | 540   | 1360     | 2445     | 140                         | 230   | 345      | 690      |
| RPX         | 86                 | 120          | 485                              | 2040  | 3000     | 3000     | 540                         | 860   | 1290     | 1800     |
| RPY         | 86                 | 150          | 605                              | 2550  | -        | -        | 670                         | 1080  | 1620     | -        |

# A Series Motors

## A Series PMDC Motor Specifications

| PMDC Motor | Rated Torque (N-cm) | Rated Voltage (V) | Rated Current (A) | Rated Speed (RPM) | Rated Power (W) |
|------------|---------------------|-------------------|-------------------|-------------------|-----------------|
| AA         | 5.7                 | 12                | 1.25              | 1500              | 10              |
|            | 5.7                 | 24                | 1.3               | 3000              | 20              |
| AB         | 12                  | 12                | 2.2               | 1500              | 20              |
|            | 12                  | 24                | 2.2               | 3000              | 40              |



| REF. | A MAX. | WEIGHT  |
|------|--------|---------|
| AA   | 86.0   | 0.4 KG. |
| AB   | 122.0  | 0.6 KG. |

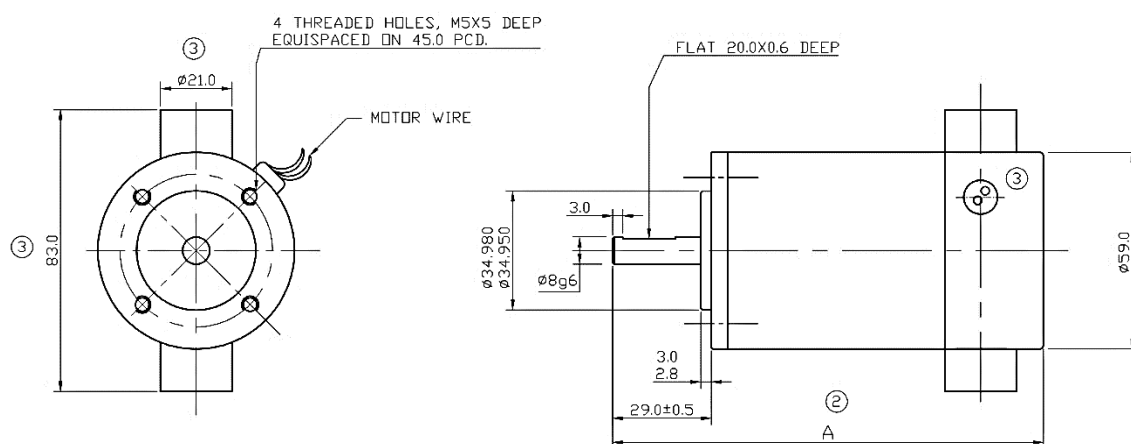
NOTES: PLEASE SEND APPROVAL COPY WHILE ORDERING.  
ALL UNSPECIFIED TOLERANCES WITHIN  $\pm 3\%$  LIMIT

| MODEL | L   | E  | F | G | R | T | S  | M  | $\varnothing Nf7$ | $\varnothing Dg6$ | $\varnothing P$ | J | $\varnothing K$ | Weight Kg. |
|-------|-----|----|---|---|---|---|----|----|-------------------|-------------------|-----------------|---|-----------------|------------|
| AA    | 86  | 20 | - | - | - | 3 | M3 | 28 | 18                | 5                 |                 |   |                 |            |
| AB    | 122 | 20 | - | - | - | 3 | M3 | 28 | 18                | 5                 |                 |   |                 |            |

# C Series Motors

## C Series PMDC Motor Specifications

| PMDC Motor | Rated Torque (N-cm) | Rated Voltage (V) | Rated Current (A) | Rated Speed (RPM) | Rated Power (W) |
|------------|---------------------|-------------------|-------------------|-------------------|-----------------|
| CA         | 14                  | 12                | 2.5               | 1500              | 22              |
|            | 14                  | 24                | 2.5               | 3000              | 44              |
| CB         | 28                  | 12                | 4.6               | 1500              | 44              |
|            | 28                  | 24                | 4.6               | 3000              | 88              |
| CC         | 50                  | 12                | 11.5              | 1500              | 80              |
|            | 50                  | 24                | 11.5              | 3000              | 160             |



| MODEL | A   | WEIGHT   |
|-------|-----|----------|
| CA    | 130 | 0.9 KGS. |
| CB    | 164 | 1.4 KGS. |
| CC    | 198 | 1.9 KGS. |

④

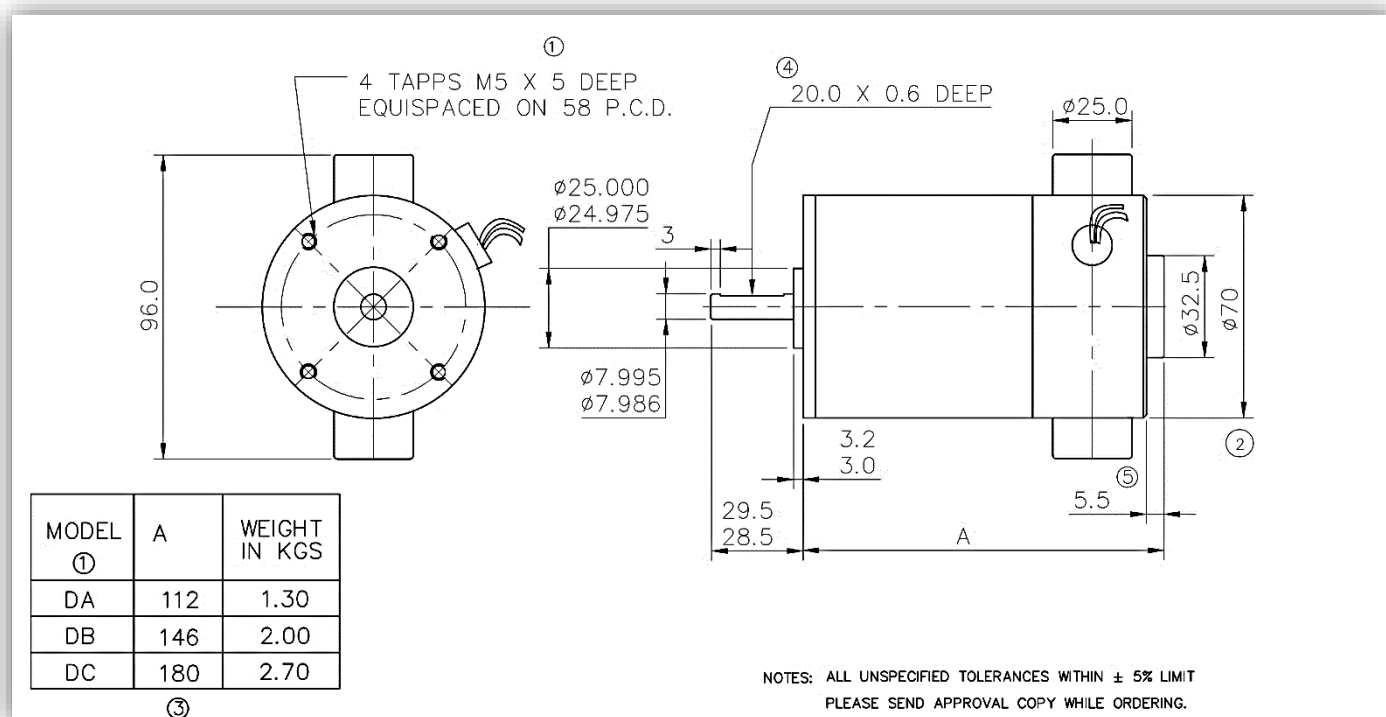
- PLEASE SEND APPROVAL COPY WHILE ORDERING
- ALL UNSPECIFIED TOLERANCES WITHIN  $\pm 3\%$  LIMIT

| MODEL | L   | E  | F | G | R      | T | S  | M  | ØNf7 | ØDg6 | ØP | J  | ØK | Weight Kg. |
|-------|-----|----|---|---|--------|---|----|----|------|------|----|----|----|------------|
| CA    | 101 | 29 | - | - | 0.6X20 | 3 | M5 | 45 | 35   | 8    | 59 | 83 | 21 | 0.9        |
| CB    | 135 | 29 | - | - | 0.6X20 | 3 | M5 | 45 | 35   | 8    | 59 | 83 | 21 | 0.9        |
| CC    | 169 | 29 | - | - | 0.6X20 | 3 | M5 | 45 | 35   | 8    | 59 | 83 | 21 | 0.9        |

# D Series Motors

## D Series PMDC Motor Specifications

| PMDC Motor | Rated Torque (N-cm) | Rated Voltage (V) | Rated Current (A) | Rated Speed (RPM) | Rated Power (W) |
|------------|---------------------|-------------------|-------------------|-------------------|-----------------|
| DA         | 30                  | 12                | 5.7               | 1500              | 50              |
|            | 30                  | 24                | 5.8               | 3000              | 100             |
| DB         | 50                  | 12                | 8.5               | 1500              | 80              |
|            | 50                  | 24                | 8.4               | 3000              | 160             |
| DC         | 75                  | 12                | 11                | 1500              | 120             |
|            | 75                  | 24                | 11.1              | 3000              | 240             |

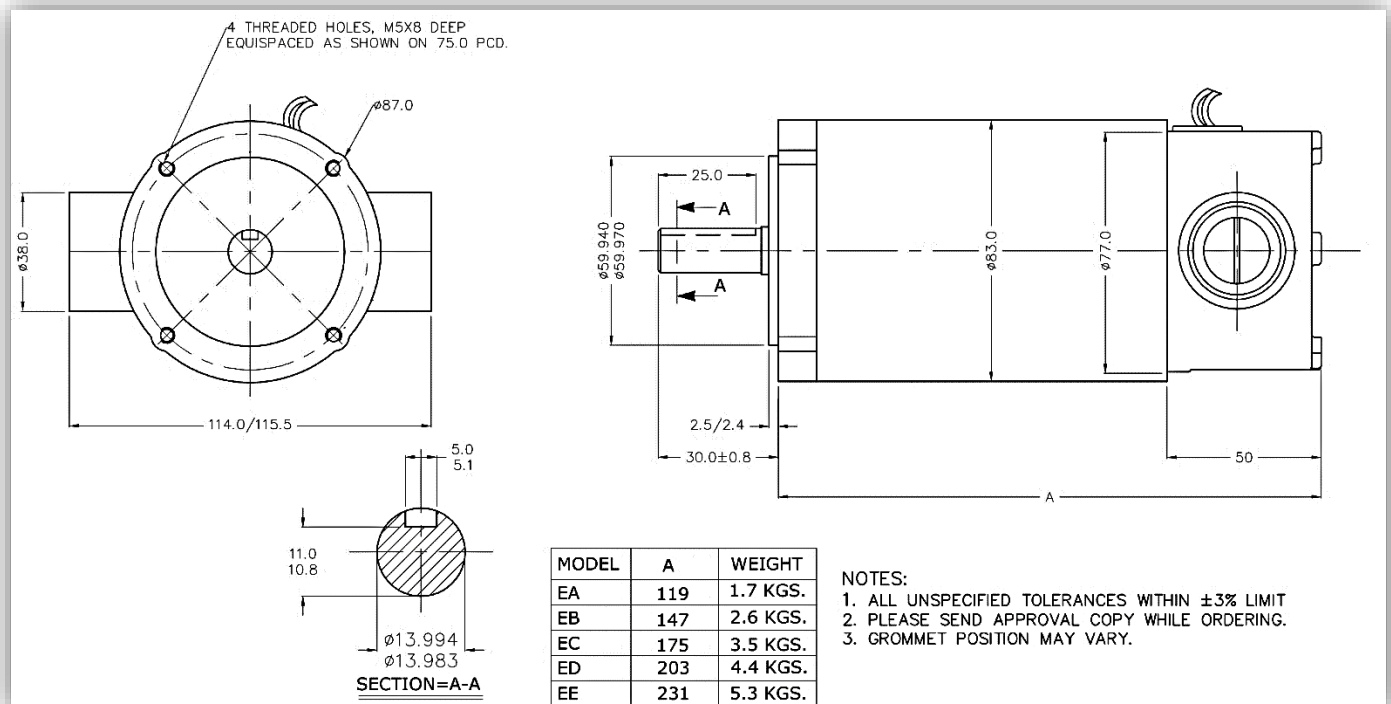


| MODEL | L   | E  | F | G | R      | T | S  | M  | $\phi Nf7$ | $\phi Dg6$ | $\phi P$ | J  | $\phi K$ | Weight Kg. |
|-------|-----|----|---|---|--------|---|----|----|------------|------------|----------|----|----------|------------|
| DA    | 112 | 29 | - | - | 0.6X20 | 3 | M5 | 58 | 25         | 8          | 70       | 96 | 25       | 1.3        |
| DB    | 146 | 29 | - | - | 0.6X20 | 3 | M5 | 58 | 25         | 8          | 70       | 96 | 25       | 2          |
| DC    | 180 | 29 | - | - | 0.6X20 | 3 | M5 | 58 | 25         | 8          | 70       | 96 | 25       | 2.7        |

# E Series Motors

## E Series PMDC Motor Specifications

| PMDC Motor | Rated Torque (N-cm) | Rated Voltage (V) | Rated Current (A) | Rated Speed (RPM) | Rated Power (W) |
|------------|---------------------|-------------------|-------------------|-------------------|-----------------|
| EB         | 65                  | 12                | 10                | 1500              | 120             |
|            | 65                  | 24                | 10                | 3000              | 240             |
| EC         | 90                  | 12                | 14.5              | 1500              | 140             |
|            | 90                  | 24                | 14.5              | 3000              | 280             |
| TP         | 110                 | 12                | 16                | 1500              | 175             |
|            | 110                 | 24                | 16                | 3000              | 350             |

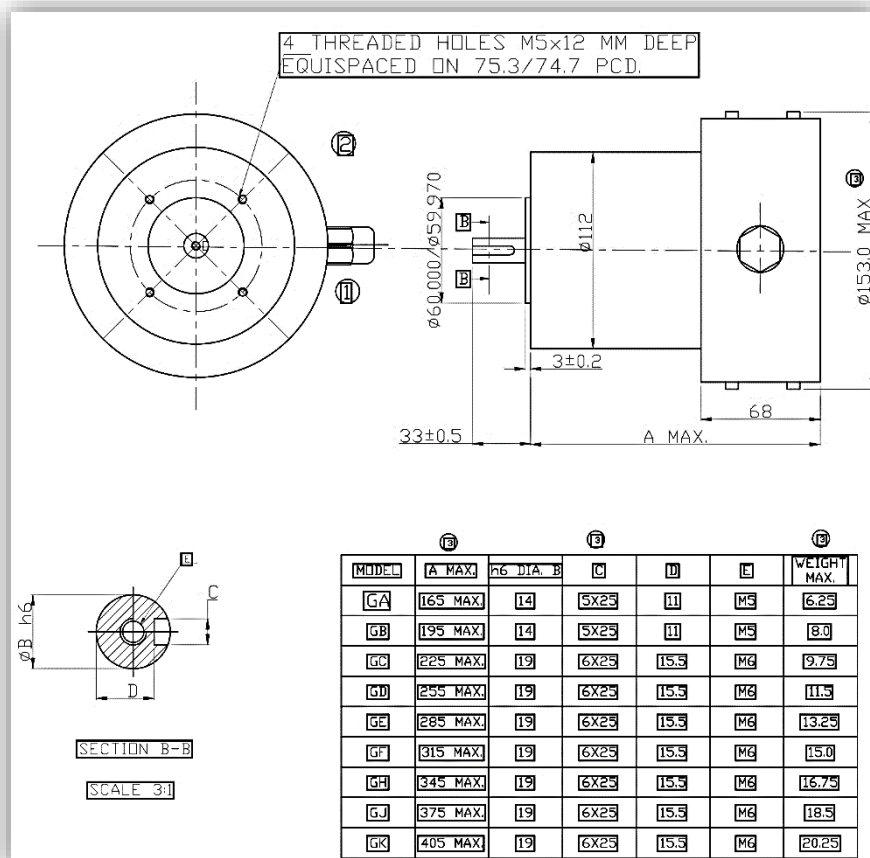


| MODEL | L   | E  | F | G  | R | T   | S  | M  | ØNf7 | ØDg6 | ØP | J   | ØK | Weight Kg. |
|-------|-----|----|---|----|---|-----|----|----|------|------|----|-----|----|------------|
| EA    | 119 | 30 | 5 | 11 | - | 2.5 | M5 | 75 | 60   | 14   | 77 | 114 | 38 | 1.7        |
| EB    | 147 | 30 | 5 | 11 | - | 2.5 | M5 | 75 | 60   | 14   | 77 | 114 | 38 | 2.6        |
| EC    | 175 | 30 | 5 | 11 | - | 2.5 | M5 | 75 | 60   | 14   | 77 | 114 | 38 | 3.5        |
| TP    | 175 | 40 | - | -  | - | 5   | M6 | 75 | 40   | 12   | 76 | 104 | 25 | 3.5        |

# G Series Motors

## G Series PMDC Motor Specifications

| PMDC Motor | Rated Torque (N-cm) | Rated Voltage (V) | Rated Current (A) | Rated Speed (RPM) | Rated Power (W) |
|------------|---------------------|-------------------|-------------------|-------------------|-----------------|
| GA         | 100                 | 24                | 9                 | 1500              | 160             |
|            | 100                 | 180               | 2                 | 3000              | 315             |
| GB         | 200                 | 24                | 33                | 1500              | 315             |
|            | 200                 | 180               | 4                 | 3000              | 625             |
| GC         | 300                 | 24                | 25.7              | 1500              | 475             |
|            | 300                 | 180               | 5.9               | 3000              | 950             |
| GD         | 400                 | 24                | 35                | 1500              | 625             |
|            | 400                 | 180               | 7.8               | 3000              | 1250            |
| GE         | 500                 | 24                | 37.5              | 1500              | 800             |
|            | 500                 | 180               | 9.5               | 3000              | 1600            |
| GF         | 600                 | 24                | 50                | 1500              | 950             |
|            | 600                 | 180               | 12.5              | 3000              | 1900            |
| GH         | 700                 | 24                | 60                | 1500              | 1100            |
|            | 700                 | 180               | 16                | 3000              | 2200            |
| GJ         | 800                 | 24                | 75                | 1500              | 1250            |
|            | 800                 | 180               | 16                | 3000              | 2500            |
| GK         | 900                 | 180               | 19.3              | 3000              | 2800            |





| MODEL | L   | E  | F | G    | R | T | S  | M  | ØNf7 | ØDg6 | ØP  | J   | ØK | Weight Kg. |
|-------|-----|----|---|------|---|---|----|----|------|------|-----|-----|----|------------|
| GA    | 165 | 33 | 5 | 11   | - | 3 | M5 | 75 | 60   | 14   | 112 | 140 | 40 | 4.25       |
| GB    | 195 | 33 | 5 | 11   | - | 3 | M5 | 75 | 60   | 14   | 112 | 140 | 40 | 6          |
| GC    | 225 | 33 | 6 | 15.5 | - | 3 | M5 | 75 | 60   | 19   | 112 | 140 | 40 | 7.75       |
| GD    | 255 | 33 | 6 | 15.5 | - | 3 | M5 | 75 | 60   | 19   | 112 | 140 | 40 | 9.5        |
| GE    | 385 | 33 | 6 | 15.5 | - | 3 | M5 | 75 | 60   | 19   | 112 | 140 | 40 | 11.25      |
| GF    | 315 | 33 | 6 | 15.5 | - | 3 | M5 | 75 | 60   | 19   | 112 | 140 | 40 | 13         |
| GH    | 345 | 33 | 6 | 15.5 | - | 3 | M5 | 75 | 60   | 19   | 112 | 140 | 40 | 14.75      |
| GJ    | 375 | 33 | 6 | 15.5 | - | 3 | M5 | 75 | 60   | 19   | 112 | 140 | 40 | 16.5       |
| GK    | 405 | 33 | 6 | 15.5 | - | 3 | M5 | 75 | 60   | 19   | 112 | 140 | 40 | 18.25      |

## About us

MoveMatic, founded in 2019 with a goal to design and develop Indigenous electric motors both standard and custom built motors and allied products to support wide range of industrial application.

We take pride in delivering world class services and our customers are well aware of the fact that we do not just deliver products; we deliver a satisfying experience which has enabled us to forge strong relationships with our customers. We also consult and design custom motors for our customers to match their applications.

### Our Product

- Permanent Magnet DC servo motors
- Frameless Direct drive Torque motors
- Brushless Servo Motor
- Printed Armature DC Servo Motors.
- Induction Motors for Warships and Submarines. (Shock grade)
- Motors for Defence Application.



**Innovation**



**Design**



**Customization**



**Production**

*Enabling Motion control*



**MOVEMATIC**

### MoveMatic

D-52/12, MIDC, Waluj,  
Aurangabad - 431136 (India)

t: +91 9146009311

e: sales@movematic.in

www.movematic.in