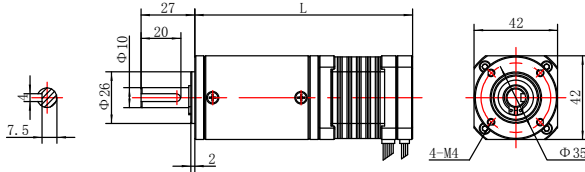


# 42PA/42BLF BLDC PLANETARY GEAR MOTOR

## ● Mechanical Dimensions



### ● 42PAXXXG/42BLF47-2440

|                            |     |      |      |      |      |      |      |      |      |      |
|----------------------------|-----|------|------|------|------|------|------|------|------|------|
| Rated Voltage              | V   | 24   |      |      |      |      |      |      |      |      |
| Reduction ratio            | 1:X | 3.7  | 5.2  | 13   | 19   | 27   | 51   | 71   | 100  | 139  |
| Stage                      | #   | 1    | 1    | 2    | 2    | 2    | 3    | 3    | 3    | 3    |
| Rated speed                | rpm | 1081 | 769  | 292  | 208  | 149  | 78   | 56   | 40   | 29   |
| Rated Torque               | N-m | 0.21 | 0.29 | 0.69 | 0.97 | 1.35 | 2.25 | 3.13 | 4.39 | 6.13 |
| Gear motor length          | mm  | 85   | 85   | 97   | 97   | 97   | 109  | 109  | 109  | 109  |
| Moment Possible Max Torque | N-m | 0.63 | 0.87 | 2.07 | 2.91 | 4.05 | 6.75 | 9.39 | 18   | 18   |

### ● 42PAXXXG/42BLF63-2440

|                            |     |      |      |      |      |      |      |      |      |     |
|----------------------------|-----|------|------|------|------|------|------|------|------|-----|
| Rated Voltage              | V   | 24   |      |      |      |      |      |      |      |     |
| Reduction ratio            | 1:X | 3.7  | 5.2  | 13   | 19   | 27   | 51   | 71   | 100  | 139 |
| Stage                      | #   | 1    | 1    | 2    | 2    | 2    | 3    | 3    | 3    | 3   |
| Rated speed                | rpm | 1081 | 769  | 292  | 208  | 149  | 78   | 56   | 40   | 29  |
| Rated Torque               | N-m | 0.42 | 0.59 | 1.37 | 1.92 | 2.68 | 4.46 | 6.21 | 8.71 | 12  |
| Gear motor length          | mm  | 101  | 101  | 113  | 113  | 113  | 125  | 125  | 125  | 125 |
| Moment Possible Max Torque | N-m | 1.26 | 1.77 | 4.11 | 5.76 | 8.04 | 13.4 | 18.6 | 26.1 | 30  |

### ● 42PAXXXG/42BLF79-2440

|                            |     |      |      |      |      |      |      |      |     |     |
|----------------------------|-----|------|------|------|------|------|------|------|-----|-----|
| Rated Voltage              | V   | 24   |      |      |      |      |      |      |     |     |
| Reduction ratio            | 1:X | 3.7  | 5.2  | 13   | 19   | 27   | 51   | 71   | 100 | 139 |
| Stage                      | #   | 1    | 1    | 2    | 2    | 2    | 3    | 3    | 3   | 3   |
| Rated speed                | rpm | 1081 | 769  | 292  | 208  | 149  | 78   | 56   | 40  | 29  |
| Rated Torque               | N-m | 0.63 | 0.88 | 2.06 | 2.89 | 4.03 | 6.71 | 9.34 | 13  | 15  |
| Gear motor length          | mm  | 117  | 117  | 129  | 129  | 129  | 141  | 141  | 141 | 141 |
| Moment Possible Max Torque | N-m | 1.89 | 2.64 | 6.18 | 8.67 | 12   | 20   | 28   | 30  | 30  |

## ● Motor Specifications

| Model        | Rated Voltage | Rated Speed | Rated Current | Rated Torque | Output Power | Biggest Torque | Number of Phases | Number of Poles |
|--------------|---------------|-------------|---------------|--------------|--------------|----------------|------------------|-----------------|
|              | V             | rpm         | A             | mN.m         | W            | mN.m           | #                | #               |
| 42BLF47-2440 | 24            | 4000        | 1.9           | 63           | 26           | 180            | 8                | 3               |
| 42BLF63-2440 | 24            | 4000        | 3.4           | 125          | 52           | 380            | 8                | 3               |
| 42BLF79-2440 | 24            | 4000        | 5.7           | 188          | 78           | 750            | 8                | 3               |

**42**      **PA**      **19**      **G** / **42**      **BLF**      **47**      -      **2445**  
 Size      Type      ratio      Bearing      size      type      length      Voltage and Speed  
 42mm      Planetary      19:1      Ball      42mm      Ferrite      47mm      24=24V;45=4500rpm