

ECI-040 High Voltage Brushless Motors

"Technology Leadership"

- Direct connection to main power, no AC / DC conversion
- Compact sized planetary gearbox as an option
- High efficiency, high power density
- Operation feedback / motor and application data access

"The Safe Choice"

- Proven quality in market
- Custom engineering solutions
- Rigorous application testing
- Assurance of supply and delivery



Characteristics:

This new generation is designed to simplify integration by accepting direct mains AC power through controller as input. Customers can replace AC motors directly and can also eliminate the need for expensive and large AC-to-DC transformers. In addition, the electronically commutated motors provide improved controllability, superior reliability, higher efficiency, and lower noise. Both ECI-040 motors provide powerful and stable torque output which are suited for a range of applications including window shutters, smart furniture, and coffee machines. The motors are available as standalone units or in combination with customizable controller electronics. Johnson Electric also offer a compatible planetary gearbox with different ratios.

Application Examples:

Window
Shutter



Coffee
Maker



Smart
Furniture



Smart
Kitchen
Cabinet

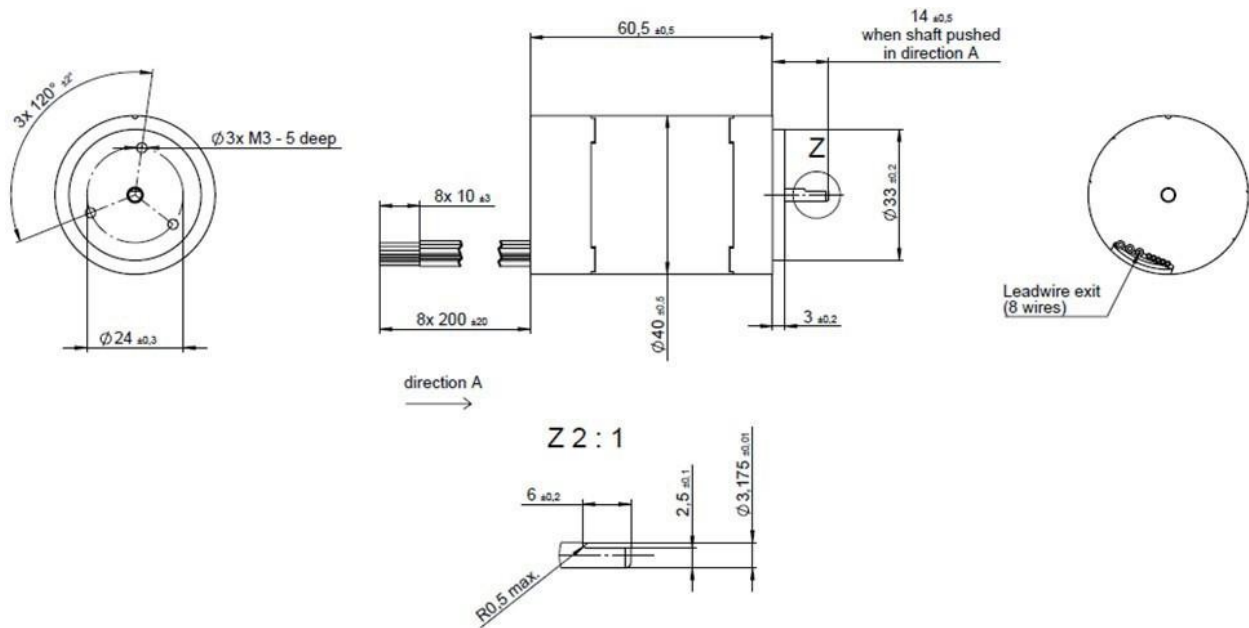


Specifications (Customization available):

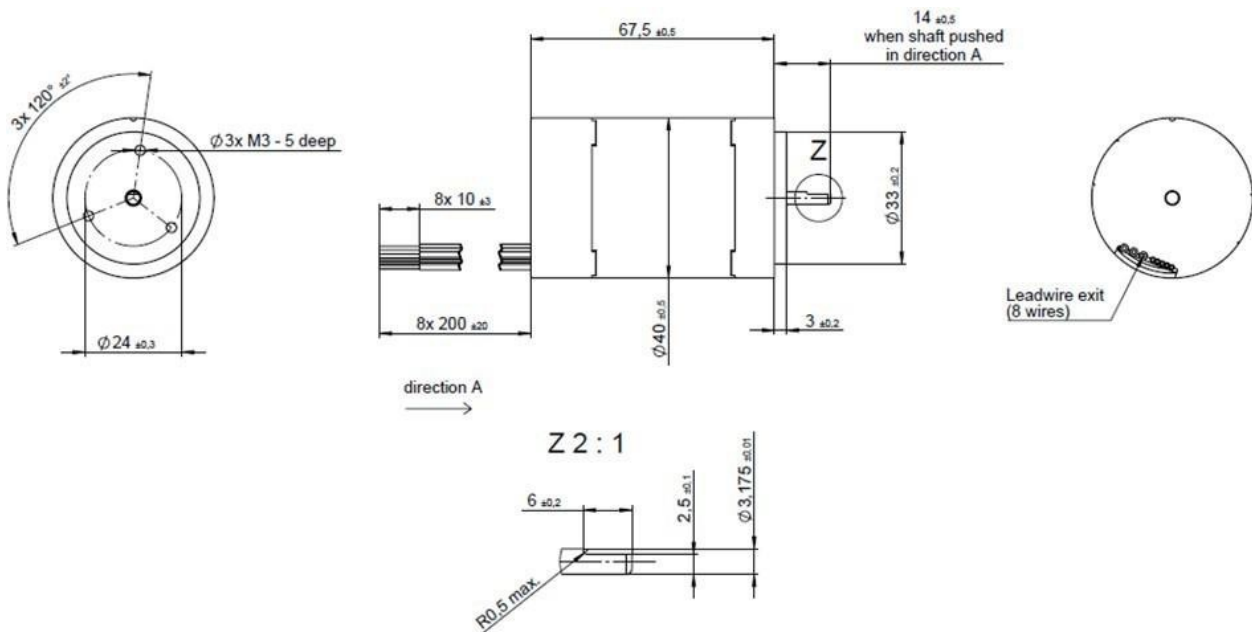
| | ECI-040-033 | ECI-040-040 |
|----------------------------------|---|---------------|
| Motor Diameter (in) | Ø1.6 | Ø1.6 |
| Stator Stack Length (in) | 1.32 | 1.6 |
| Motor Length (in) | 2.44 | 2.72 |
| Shaft Diameter (in) | Ø0.127 or Ø0.2 | |
| Input Voltage (V) | 110 / 230V AC | 110 / 230V AC |
| No Load Speed (rpm) | 9000 | 7500 |
| Rated Speed (rpm) | 7500 | 8000 |
| Rated Torque (lb.in) | 0.76 | 0.89 |
| Rate Current (A) | 0.25 | 0.3 |
| Stall Torque (lb.in) | 6.02 | 7.7 |
| Stall Current (A) | 3.1 | 4.4 |
| Maximum Output Power (hp) | 0.19 | 0.25 |
| Maximum Efficiency (%) | 82% | 83% |
| Torque at Max Eff (lb.in) | 0.76 | 0.89 |
| Speed at Max Eff (rpm) | 7500 | 8000 |
| Weight (oz) | 9.28 | 11.01 |
| Operating Temperature Range (°F) | - 4 to 140°F | |
| Electrical Connection | Leadwire (FPC, pins, connectors on request) | |



Drawing: ECI-040-033



Drawing: ECI-040-040

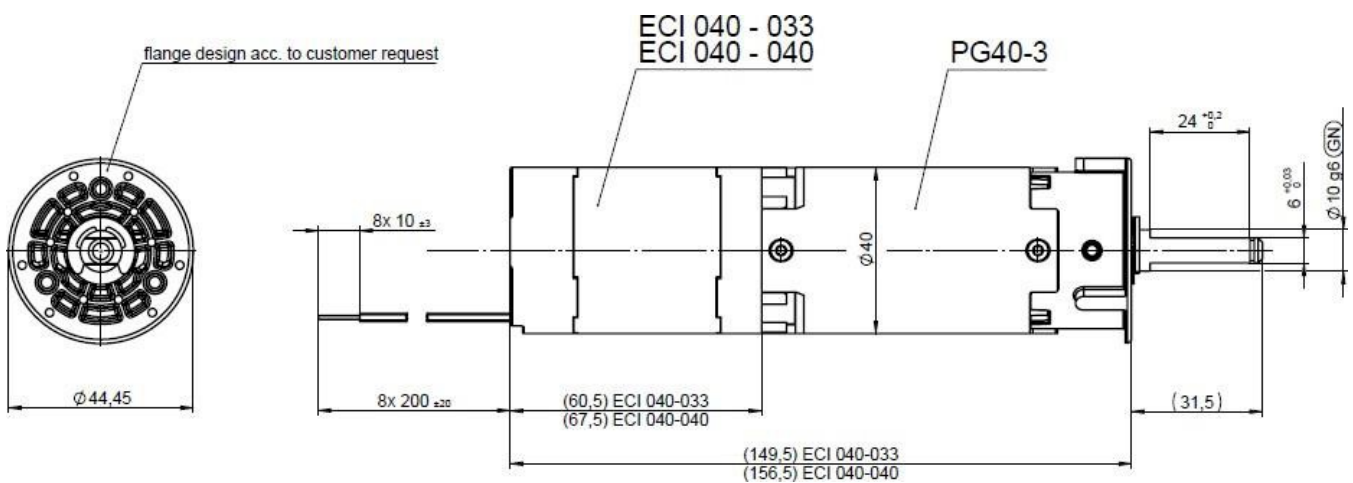
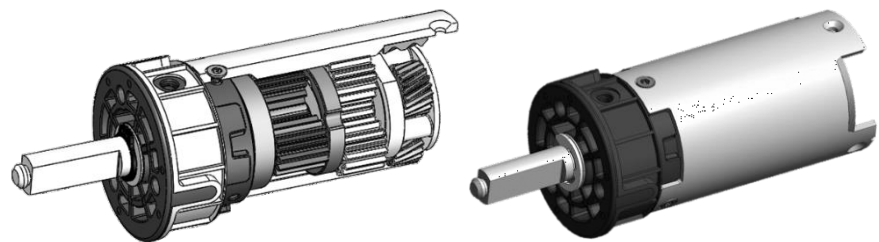


ECI-040 Brushless DC Motor (Optional gearbox)

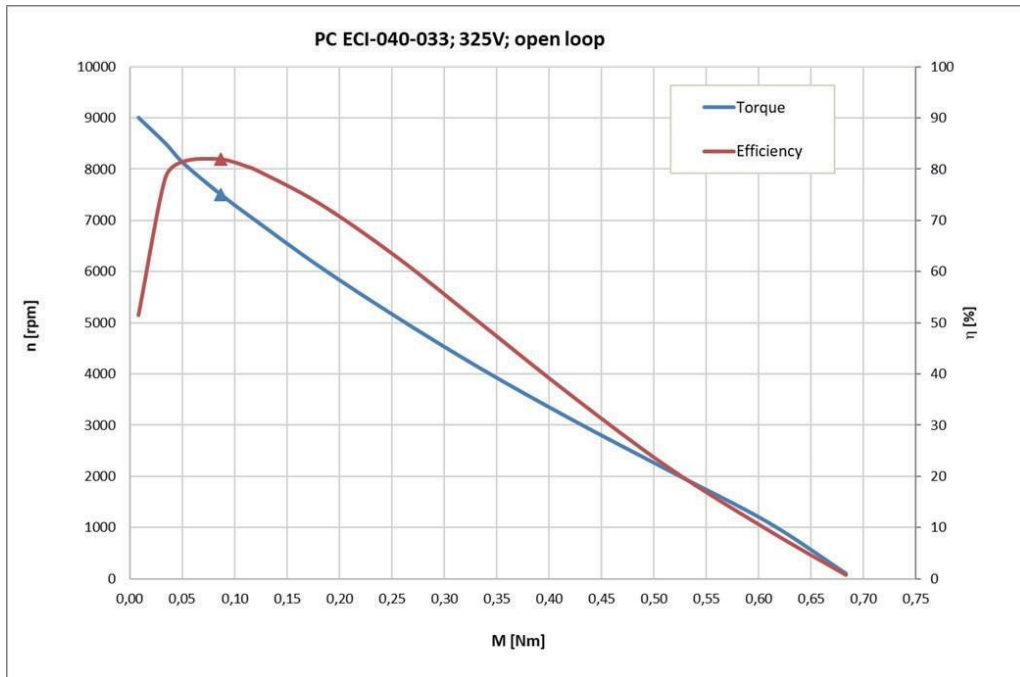
Specifications:

| ECI-040 Brushless DC Motor (Optional gearbox) | |
|---|---|
| Nominal Speed (rpm) | 5 ... 50 rpm |
| Nominal Torque (lb.in) | 132 lb.in max. |
| Gear Ratio | 180:1 (another ratio on request) |
| Number of Gear Stages | 3 (other number of stages on request) |
| Operating Temperature Range (°F) | - 4 to 140°F |
| Electrical Connection | Leadwire (FPC, pins, connectors on request) |
| Shaft Diameter (in) | 0.4 in (other features on request) |

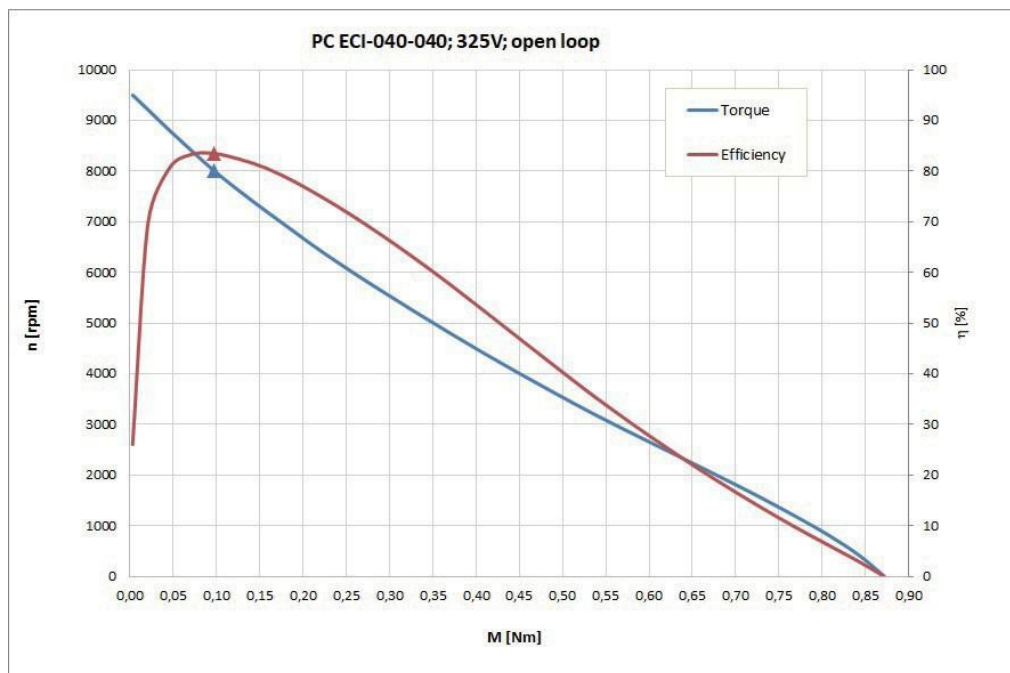
Drawing:



Performance: ECI-040-033

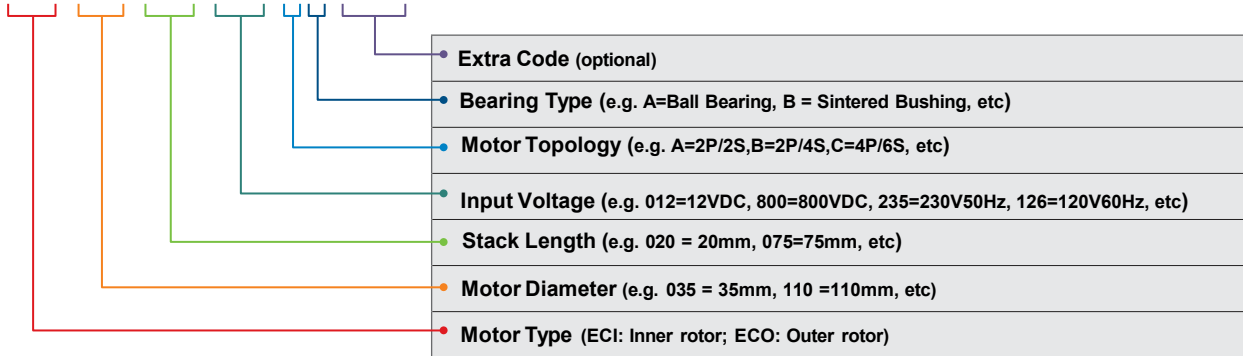


Performance: ECI-040-040



JE Motor Coding Table:

ECI-040-033-023-AB-XXX



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