

## ECI-040 High Voltage Brushless EC 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

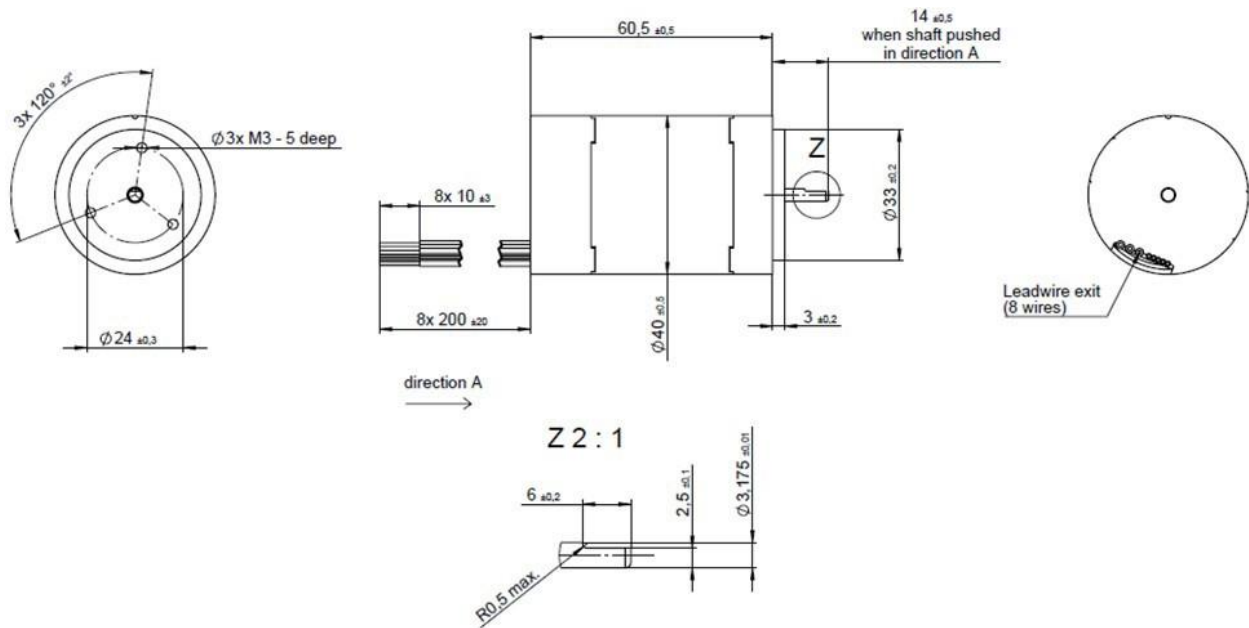


## Specifications (Customization available):

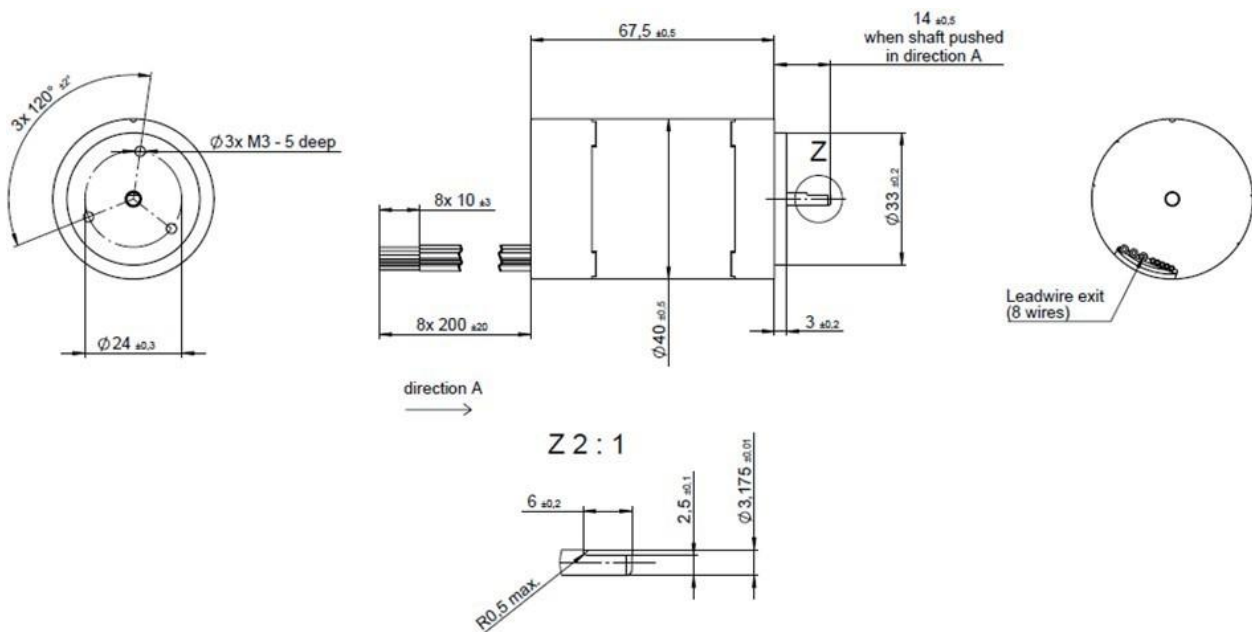
	ECI-040-033	ECI-040-040
Motor Diameter (mm)	Ø40	Ø40
Stator Stack Length (mm)	33	40
Motor Length (mm)	61	68
Shaft Diameter (mm)	Ø3.175 or Ø5	
Input Voltage (V)	110 / 230V AC	110 / 230V AC
No Load Speed (rpm)	9000	9500
Rated Speed (rpm)	7500	8000
Rated Torque (mNm)	86	100
Rate Current (A)	0.25	0.3
Stall Torque (mNm)	680	870
Stall Current (A)	3.1	4.4
Maximum Output Power (W)	144	186
Maximum Efficiency (%)	82%	83%
Torque at Max Eff (mNm)	86	100
Speed at Max Eff (rpm)	7500	8000
Weight (g)	263	312
Operating Temperature Range (°C)	- 20 to 60°C	
Electrical Connection	Leadwire (FPC, pins, connectors on request)	



## Drawing: ECI-040-033



## Drawing: ECI-040-040

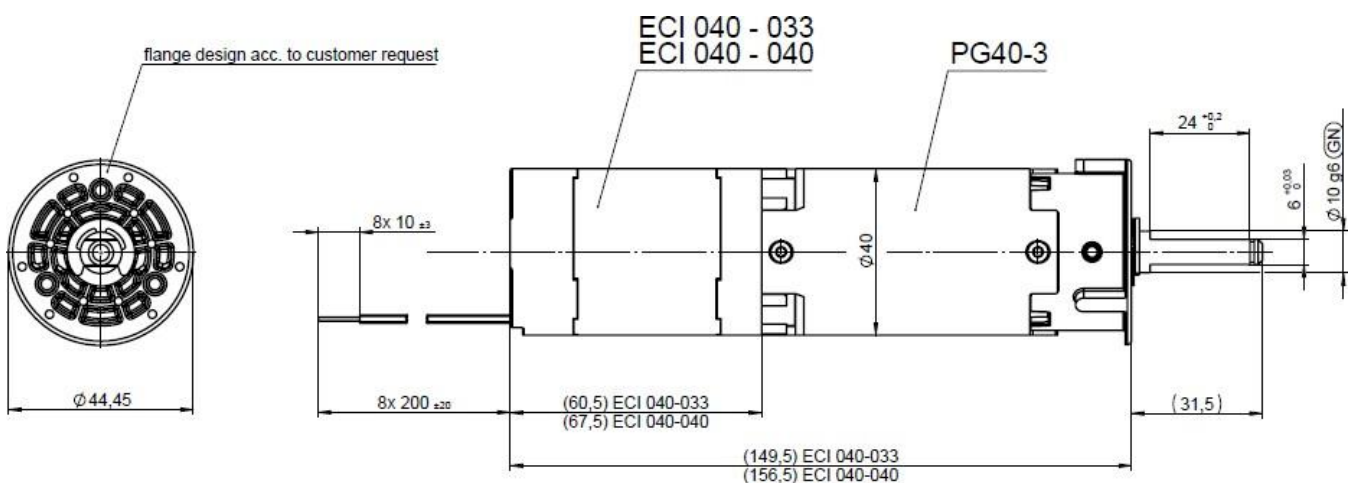
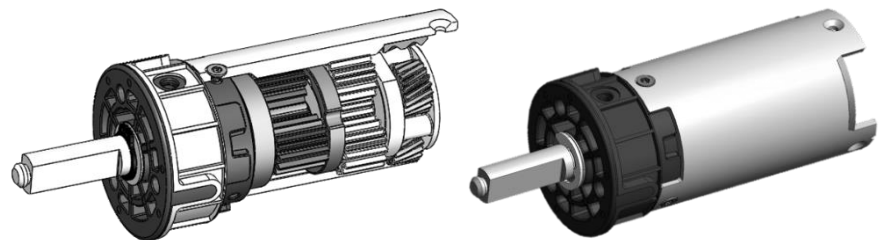


## ECI-040 Brushless DC Motor (Optional gearbox)

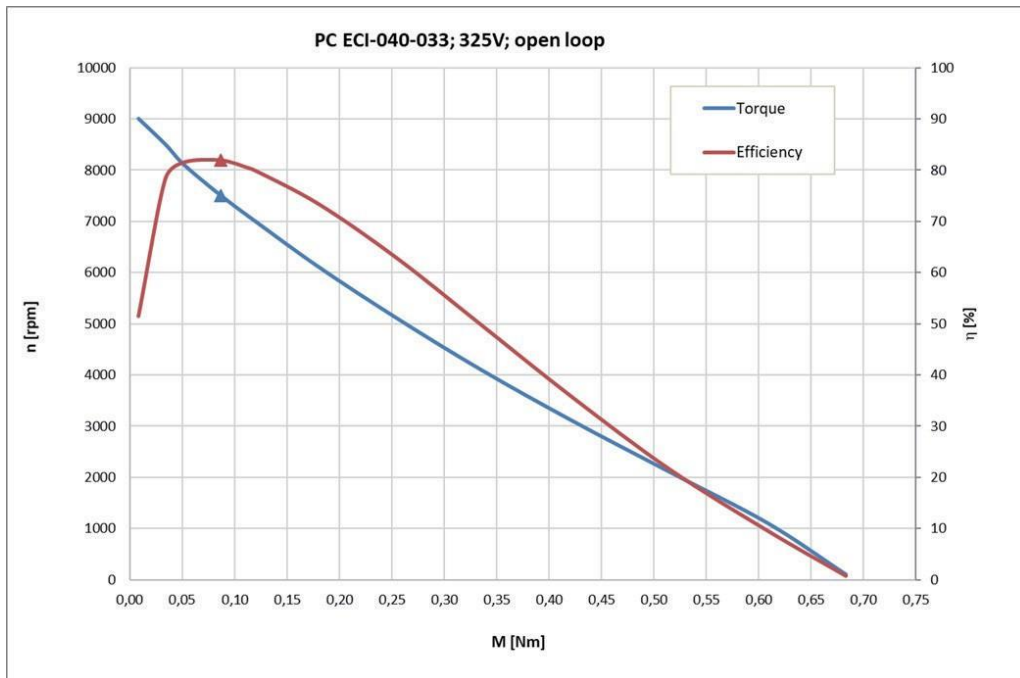
### Specifications:

ECI-040 Brushless DC Motor (Optional gearbox)	
Nominal Speed	5 ... 50 rpm
Nominal Torque	15 Nm max.
Gear Ratio	180:1 (another ratio on request)
Number of Gear Stages	3 (other number of stages on request)
Operating Temperature Range	- 20 to + 60 °C
Electrical Connection	Leadwire (FPC, pins, connectors on request)
Shaft Diameter	10 mm (other features on request)

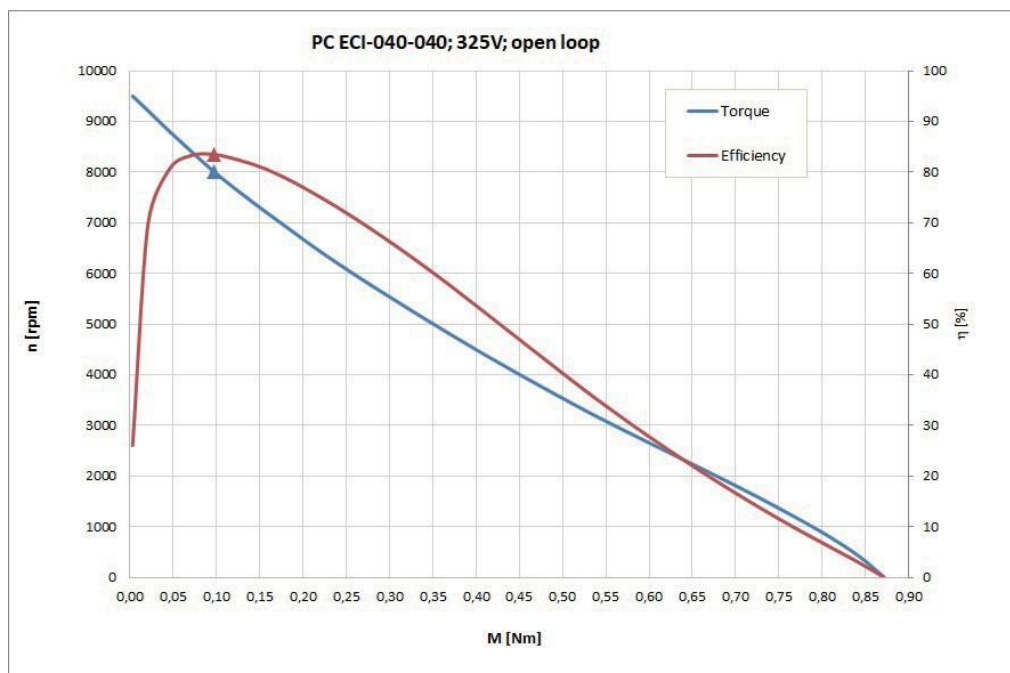
### Drawing:



## Performance: ECI-040-033

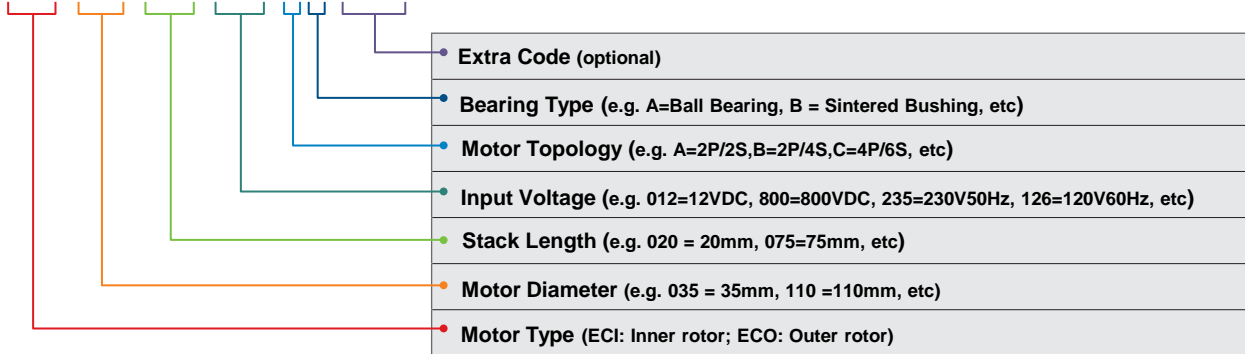


## Performance: ECI-040-040



## JE Motor Coding Table:

**ECI-040-033-023-AB-XXX**



## Contact Information:

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