

### SERVO MOTOR 115UDD400BAECA115240-JSAA

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HIGH INERTIA MOTOR, 115 PCD MOUNTING HOLES, Ø24 x 50mm OUTPUT SHAFT



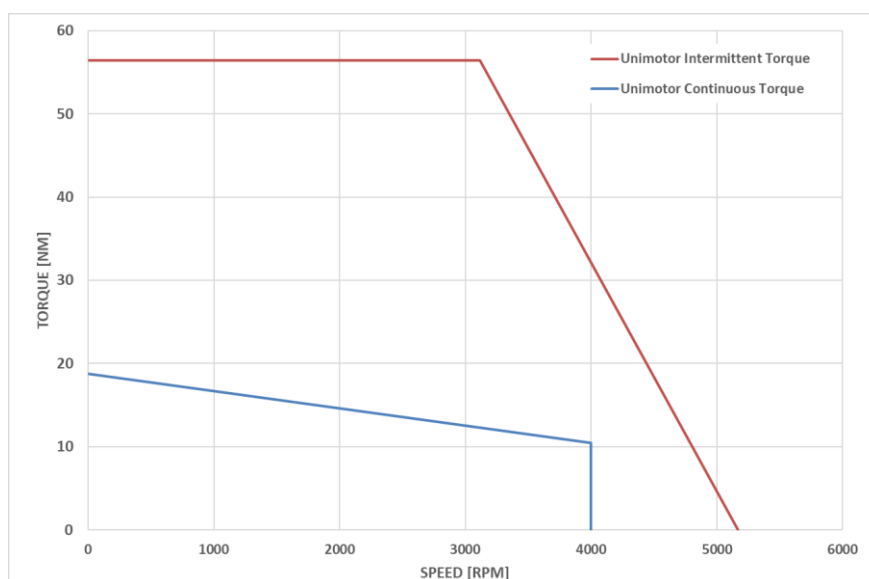
#### Definition

Type	Unimotor HD	
Frame Size (mm)	115	
Voltage	U	400 V
Magnet type	D	High Dynamic
Frame Length	D	
Speed (min <sup>-1</sup> )	40	4000
Brake	0	Unbraked
Connection type	B	Power and Signal 90° rotatable (Size 1)
Output shaft	A	With output key
Feedback device code	EC	Inductive EnDat SinCos Multi-Turn (EQI 1331)
Inertia & thermistor	A-JSAA	High inertia + PTC thermistor
PCD	115	115 (FF 115 / 95)
Shaft Diameter	240	24j6 x 50.0
Fan Box	-	
Insulation class	F	
UL Motor / UL Stator	UL Motor / UL Stator	

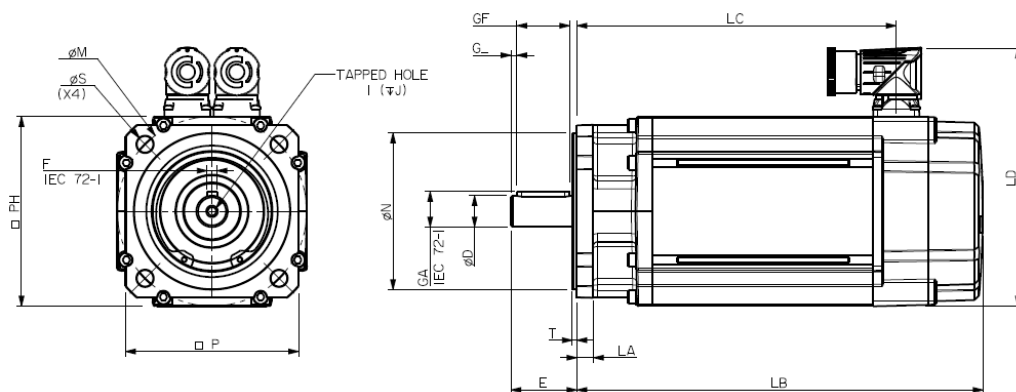
#### Nominal characteristics

Motor Ambient Temperature (°C)	40	Drive Fsw (kHz)	12
Motor Stall Torque (N.m)	18.8	Stall Current (A)	16
Rated Torque (N.m)	10.5	Nominal Current (A)	8.75
Motor Peak Torque (N.m)	56.4	Kt (Nm/A)	1.2
Rated Power (kW)	4.4	Ke (V/kmin <sup>-1</sup> )	73.5
Winding Thermal Time Constant (s)	175	R (ph-ph) (Ohm)	0.41
Number of Poles	10	L (ph-ph) (mH)	4.66
Typical Cogging (N.m)	0.28		
Inertia (kg.cm <sup>2</sup> )	16.6	Weight (kg)	12.2
Ingress Protection Level (IP)	IP65		

#### Torque / speed graph



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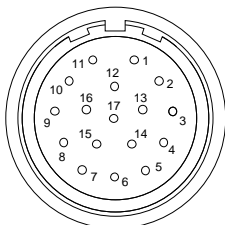
**Motors ( $^{\circ}$  & *mm*)**

LB	Total length	316.5
LC	Connector position	276.7
LA	Flange thickness	10.1
T	Register Length	2.8
N	Register Diameter	95.0
LD	Connector overall height	156.5
P	Flange Square	105.0
S	Fixing Hole Diameter	10.0
M	Fixing hole PCD	115.0
PH	Motor Housing Width	115.0
D	Shaft Diameter	24j6
E	Shaft Length	50.0
GA	Key Height	27.0
GF	Key Length	40.0
G	Key to Shaft End	5.3
F	Key Width	8.0
I	Tapped Hole Thread Size	M8 x 1.25
J	Tapped Hole Depth	20.0
	Mounting Bolt	M8

**Motor electrical interface Connectors option:**

**Feedback device code: EC - Inductive EnDat SinCos Multi-Turn (EQI 1331)**

- |                        |            |
|------------------------|------------|
| 1 - Thermistor -       | 10 - COS   |
| 2 - Thermistor +       | 11 - DATA  |
| 3 - Screen (if fitted) | 12 - DATA/ |
| 4 -                    | 13 - COS/  |
| 5 -                    | 14 - SIN   |
| 6 -                    | 15 - SIN/  |
| 7 -                    | 16 - Power |
| 8 - Clock +            | 17 - 0V    |
| 9 - Clock -            | Screen     |



**Connection type: B - Power and Signal 90° rotatable (size 1)**

