

### SERVO MOTOR 115UDB300BFEFA115240-SSAA

**115UDB300BFEFA115240-SSAA**  
115 PCD EXTENDED FEF, Ø24 x 50mm OUTPUT SHAFT



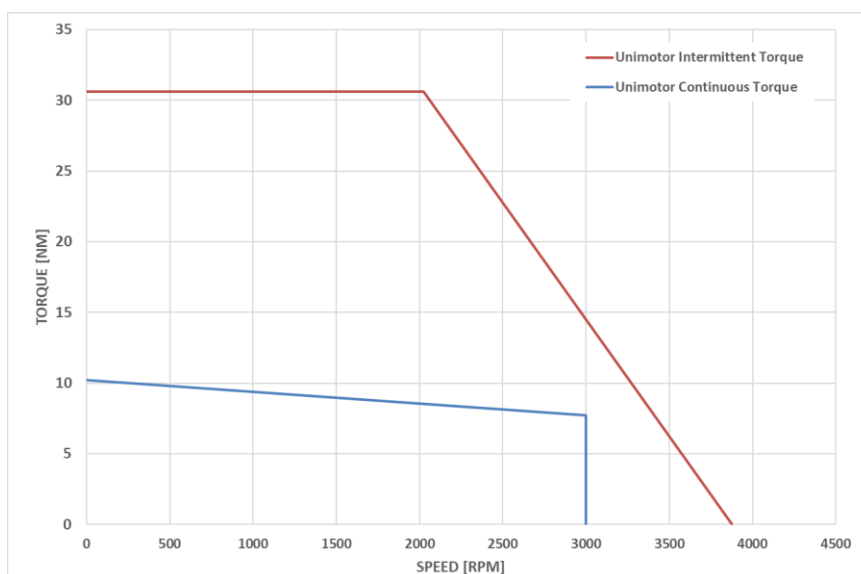
#### Definition

Type	<b>Unimotor HD</b>	
Frame Size (mm)	<b>115</b>	
Voltage	<b>U</b>	400 V
Magnet type	<b>D</b>	High Dynamic
Frame Length	<b>B</b>	
Speed (min <sup>-1</sup> )	<b>30</b>	3000
Brake	<b>0</b>	Unbraked
Connection type	<b>B</b>	Power and Signal 90° rotatable (size 1)
Output shaft	<b>F</b>	Full key & half key supplied in bag
Feedback device code	<b>EF</b>	Inductive EnDat Multi-turn FS (EQI 1331)
Inertia & thermistor	<b>A</b>	Standard inertia + PTC thermistor
PCD	<b>115</b>	115 (FF 115 / 95)
Shaft Diameter	<b>240</b>	24j6 x 50.0
Fan Box	-	
Insulation class	<b>F</b>	
UL Motor / UL Stator	<b>UL Motor / UL stator</b>	

#### Nominal characteristics

Motor Ambient Temperature (°C)	40	Drive Fsw (kHz)	12
Motor Stall Torque (N.m)	10.2	Stall Current (A)	6.37
Rated Torque (N.m)	7.7	Nominal Current (A)	4.81
Motor Peak Torque (N.m)	30.6	Kt (Nm/A)	1.6
Rated Power (kW)	2.4	Ke (V/kmin <sup>-1</sup> )	98.0
Winding Thermal Time Constant (s)	164	R (ph-ph) (Ohm)	1.9
Number of Poles	10	L (ph-ph) (mH)	18.0
Typical Cogging (N.m)	0.15		
Inertia (kg.cm <sup>2</sup> )	4.41	Weight (kg)	6.9
Ingress Protection Level (IP)	IP65		

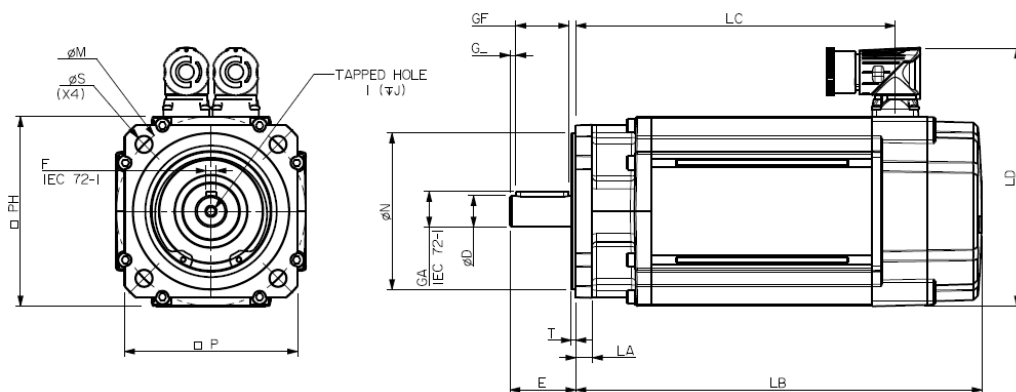
#### Torque / speed graph



Enquiry N°: 2600

Created by: SB / Approved by: FA

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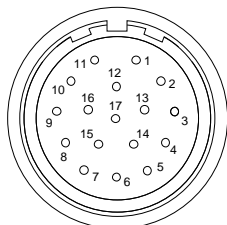
**Motors ( $^{\circ}$  & *mm*)**

LB	Total length	226.5
LC	Power connector position	186.7
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	3.6
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: EF - Inductive EnDat Multi-turn FS (EQI 1331)**

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



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

