

SERVO MOTOR 115UDB306BBCAA115190-JSAA

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HIGH INERTIA

115 PCD EXTENDED FEF, Ø19 x 40mm OUTPUT SHAFT

(motor derated - torque output from motor limited by output shaft diameter)



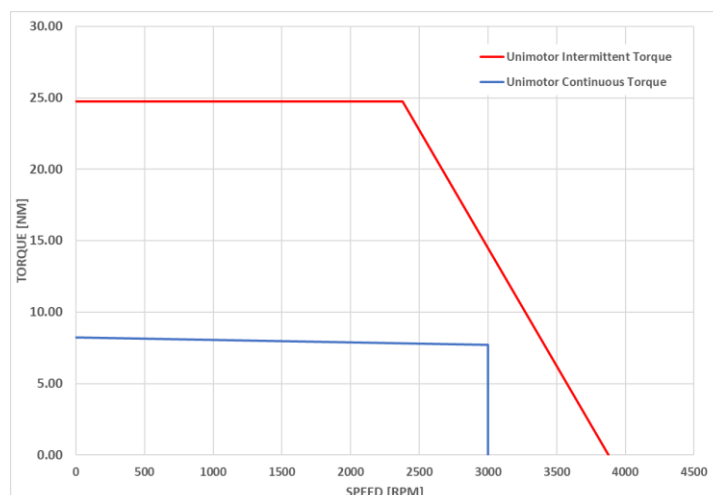
Definition

Type	Unimotor HD	
Frame Size (mm)	115	
Voltage	U	400 V
Magnet type	D	High Dynamic
Frame Length	B	
Speed (min ⁻¹)	30	3000
Brake	6	Braked
Connection type	B	Power and Signal 90° rotatable (Size 1)
Output shaft	B	No output key
Feedback device code	CA	4096 ppr Incremental encoder (CFS50)
Inertia & thermistor	A - JSAA	High inertia + PTC thermistor
PCD	115	115 (FF 115 / 95)
Shaft Diameter	190	19j6 x 40.0 (torque output from motor limited by output shaft dia)
Fan Box	-	
Insulation class	F	
UL Motor / UL Stator	UL Stator	

Nominal characteristics

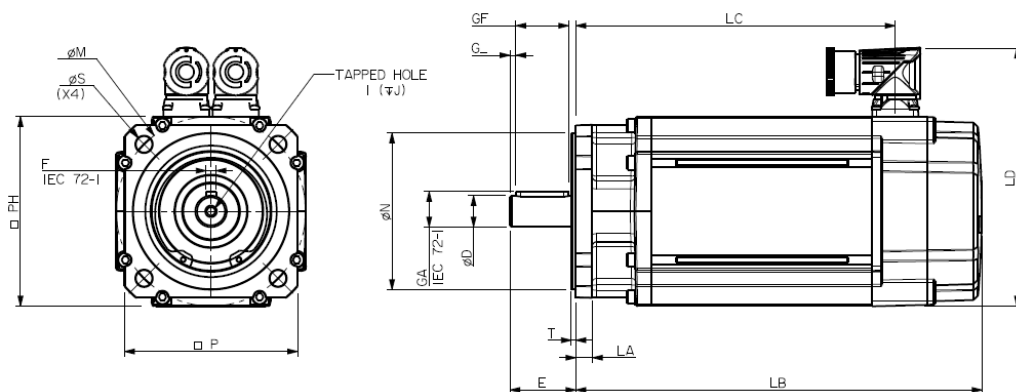
Motor Ambient Temperature (°C)	40	Drive Fsw (kHz)	12
Motor Stall Torque (N.m)	8.25	Stall Current (A)	5.2
Rated Torque (N.m)	7.7	Nominal Current (A)	4.8
Motor Peak Torque (N.m)	24.8	Kt (Nm/A)	1.6
Rated Power (kW)	2.4	Ke (V/kmin ⁻¹)	98.0
Winding Thermal Time Constant (s)	164	R (ph-ph) (Ohm)	1.9
Number of Poles	10	L (ph-ph) (mH)	18.0
Typical Cogging (N.m)	0.15		
Inertia (kg.cm ²)	11.31	Weight (kg)	10.4
Ingress Protection Level (IP)	IP65		
Brake	Type 6	Static Torque (N.m)	16
Release Time (ms)	110	Backlash (°)	3
Brake Supply Voltage (V)	24	Brake Coil Power (W)	23

Torque / speed graph



Created by: EG / Approved by: DB

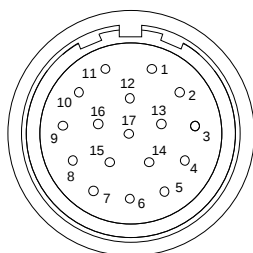
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Motors ($^{\circ}$ & *mm*)

LB	Total length	306.6
LC	Power connector position	253.8
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	19j6
E	Shaft Length	40.0
GA	Key Height	N/A
GF	Key Length	N/A
G	Key to Shaft End	N/A
F	Key Width	N/A
I	Tapped Hole Thread Size	M6 x 1.0
J	Tapped Hole Depth	17.0
	Mounting Bolt	M8

Motor electrical interface Connectors option:

Feedback device code: CA – 4096 ppr Incremental encoder (CFS50)



1 - Thermistor	10 - A
2 - Thermistor	11 - Z
3 - -	12 - Z/
4 - U	13 - A/
5 - U/	14 - B
6 - V	15 - B/
7 - V/	16 - Power +5 VDC
8 - W	17 - 0V
9 - W/	Body - Screen

Connection type: B – Power and Signal 90° rotatable (Size 1)

