

### SERVO MOTOR 115UDC300BACAA115190-SSAA

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115 PCD EXTENDED FEF, Ø19 x 40mm OUTPUT SHAFT  
(motor derated - torque output from motor limited by output shaft diameter)



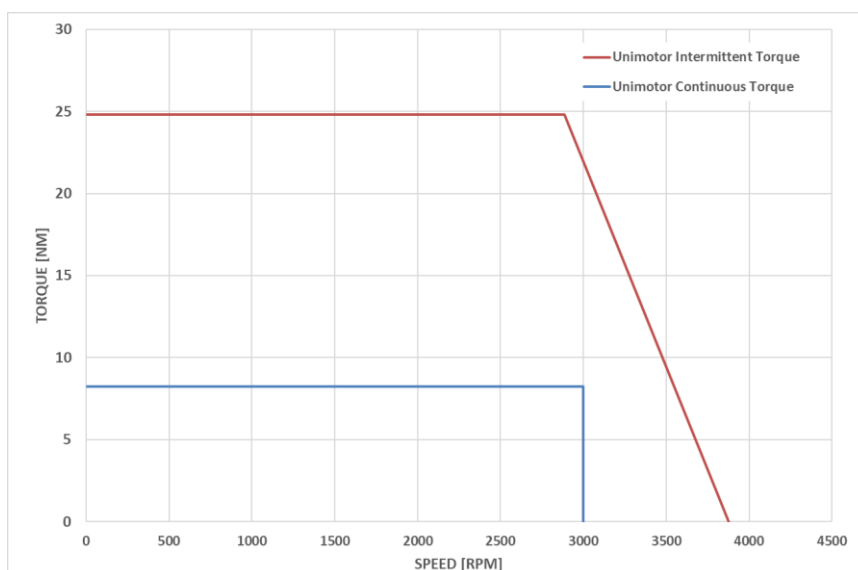
#### Definition

Type	Unimotor HD	
Frame Size (mm)	115	
Voltage	U	400 V
Magnet type	D	High Dynamic
Frame Length	C	
Speed (min <sup>-1</sup> )	30	3000
Brake	0	Unbraked
Connection type	B	Power and Signal 90° rotatable (Size 1)
Output shaft	A	With output key
Feedback device code	CA	4096 ppr Incremental encoder (CFS50)
Inertia & thermistor	A	Standard 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 Motor / UL stator	

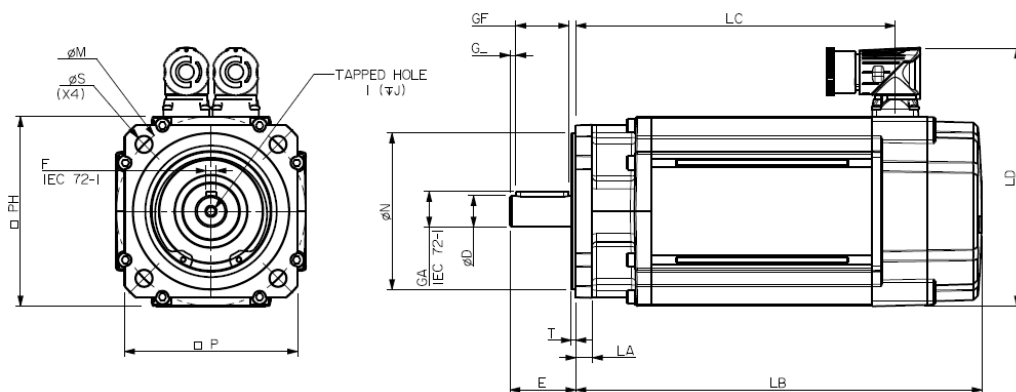
#### Nominal characteristics

Motor Ambient Temperature (°C)	40	Drive Fsw (kHz)	12
Motor Stall Torque (N.m)	8.25	Stall Current (A)	5.16
Rated Torque (N.m)	8.25	Nominal Current (A)	5.16
Motor Peak Torque (N.m)	24.8	Kt (Nm/A)	1.6
Rated Power (kW)	3.3	Ke (V/kmin <sup>-1</sup> )	98.0
Winding Thermal Time Constant (s)	168	R (ph-ph) (Ohm)	1.2
Number of Poles	10	L (ph-ph) (mH)	12.7
Typical Cogging (N.m)	0.22		
Inertia (kg.cm <sup>2</sup> )	6.39	Weight (kg)	8.6
Ingress Protection Level (IP)	IP65		

#### Torque / speed graph



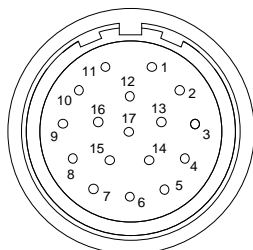
## SERVO MOTOR 115UDC300BACAA115190-SSAA

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

LB	Total length	269.5
LC	Power connector position	216.7
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	19j6
E	Shaft Length	40.0
GA	Key Height	21.5
GF	Key Length	32.0
G	Key to Shaft End	3.6
F	Key Width	6.0
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)**

