

SERVO MOTOR 142UDB200BACAA165240

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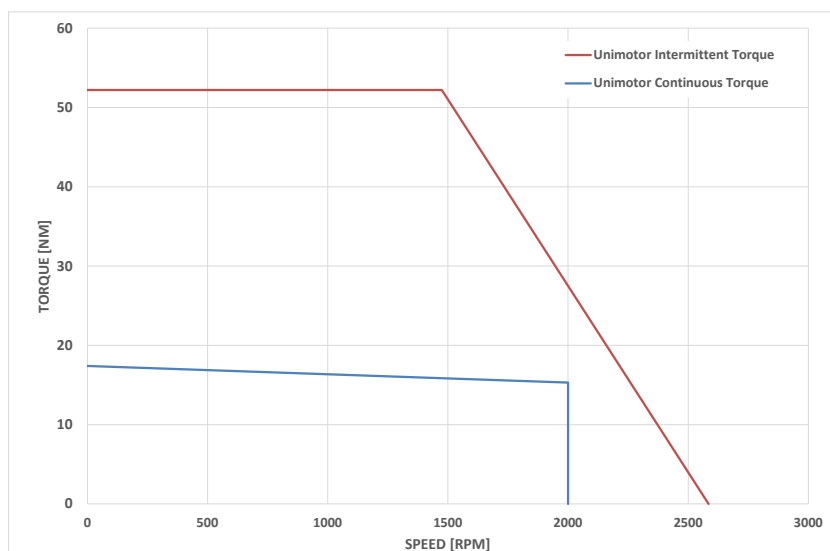
Definition

Type	Unimotor HD	
Frame Size (mm)	142	
Voltage	U	400 V
Magnet type	D	High Dynamic
Frame Length	B	
Speed (min-1)	20	2000
Brake	0	Unbraked
Connection type	B	Power and Signal size 1 90° rotatable
Output shaft	A	With output key
Feedback device code	CA	4096 ppr Incremental encoder (CFS50)
Inertia & thermistor	A	Standard inertia + PTC thermistor
PCD	165	165 (FF 165/130)
Shaft Diameter	240	24j6 x 50.0
Fan Box	-	
Insulation class	F	
UL Motor / UL Stator	UL Motor / UL Stator	

Nominal characteristics

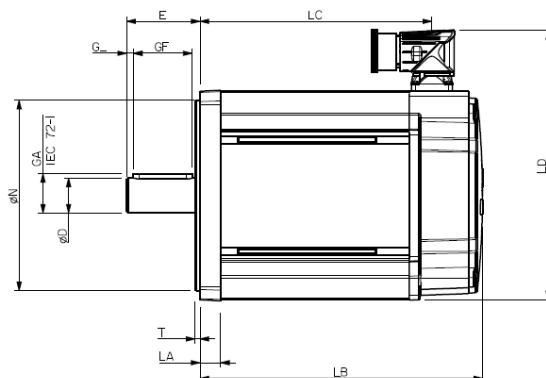
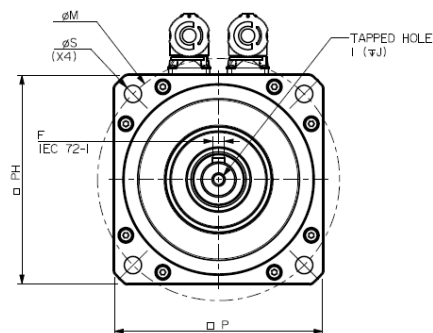
Motor Ambient Temperature (°C)	40	Drive Fsw (kHz)	12
Motor Stall Torque (Nm)	17.4	Stall Current (A)	7.25
Rated Torque (Nm)	15.3	Nominal Current (A)	6.37
Motor Peak Torque (Nm)	52.2	Kt (Nm/A)	2.4
Rated Power (kW)	3.2	Ke (V/kmin-1)	147.0
Winding Thermal Time Constant (s)	240	R (ph-ph) (Ohm)	1.5
Number of Poles	10	L (ph-ph) (mH)	21.0
Typical Cogging (Nm)	0.26		
Inertia (kg.cm²)	11.9	Weight (kg)	11.0
Ingress Protection Level (IP)	IP65		

Torque / speed graph



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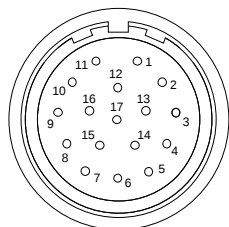
Motors (° & mm)



LB	Total length	187.0
LC	Power connector position	152.5
LA	Flange thickness	14.0
T	Register Length	3.4
N	Register Diameter	130.0
LD	Connector overall height	183.5
P	Flange Square	142.0
S	Fixing Hole Diameter	12.0
M	Fixing hole PCD	165.0
PH	Motor Housing Width	142.0
D	Shaft Diameter	24j6
E	Shaft Length	50.0
GA	Key Height	27.0
GF	Key Length	40.0
G	Key to Shaft End	3.0
F	Key Width	8.0
I	Tapped Hole Thread Size	M8 x 1.25
J	Tapped Hole Depth	20.0
	Mounting Bolt	M10

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 |
| 8 - W | 17 - 0V |
| 9 - W/ | Body - Screen |

Connection type: B – Power and Signal size 1 90° rotatable

