

SERVO MOTOR 142UDA200BAGBA165240

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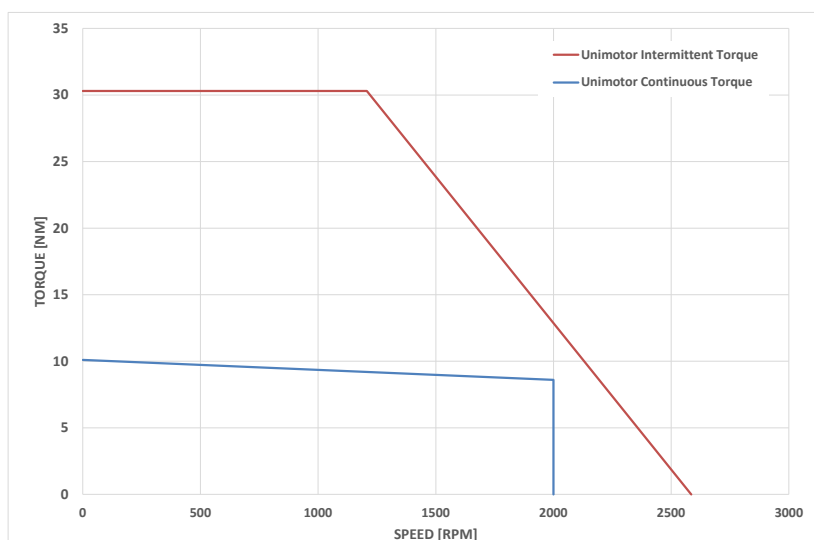
Definition

Type	Unimotor HD	
Frame Size (mm)	142	
Voltage	U	400 V
Magnet type	D	High Dynamic
Frame Length	A	
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	GB	Optical EnDat Multi-turn (EQI 1337)
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

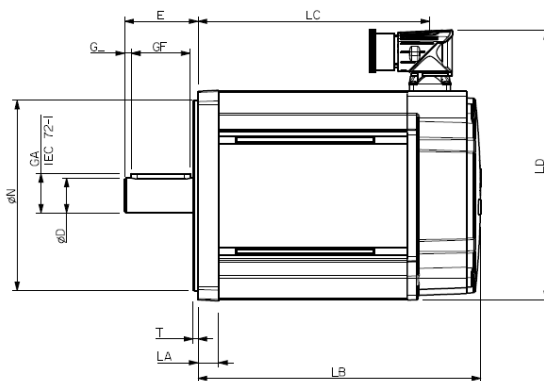
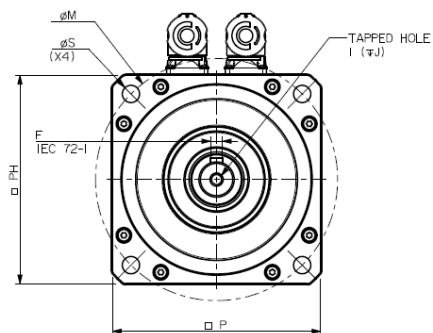
Motor Ambient Temperature (°C)	40	Drive Fsw (kHz)	12
Motor Stall Torque (Nm)	10.1	Stall Current (A)	4.0
Rated Torque (Nm)	8.6	Nominal Current (A)	3.6
Motor Peak Torque (Nm)	30.3	Kt (Nm/A)	2.4
Rated Power (kW)	1.8	Ke (V/kmin-1)	147.0
Winding Thermal Time Constant (s)	235	R (ph-ph) (Ohm)	3.9
Number of Poles	10	L (ph-ph) (mH)	46.3
Typical Cogging (Nm)	0.15		
Inertia (kg.cm²)	6.8	Weight (kg)	8.6
Ingress Protection Level (IP)	IP65		

Torque / speed graph



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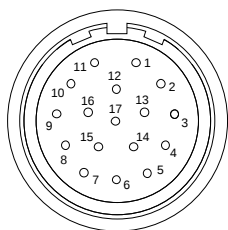
Motors (° & mm)



LB	Total length	157.0
LC	Power connector position	122.5
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	4.6
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: GB - Optical EnDat Multi-turn (EQI 1337)



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

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

