

Enquiry N°: 1858

Created by: DB / Checked by: WT

SERVO MOTOR - 089UDC306BFCAA

089UDC306BFCAA



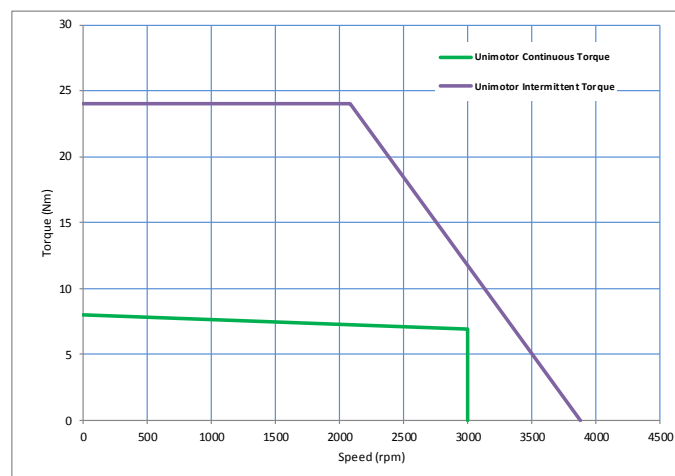
Definition

Type	Unimotor HD	
Frame Size (mm)	089	
Voltage	U	400 V
Magnet type	D	High Dynamic
Frame Length	C	
Speed (min ⁻¹)	30	3000
Brake	6	Braked
Connection type	B	Power and Signal 90° rotatable (Size 1)
Output shaft	F	Half key and full key supplied in bag
Feedback device code	CA	4096 ppr Incremental encoder (CFS50)
Inertia & thermistor	A	Standard inertia + PTC thermistor
PCD	100	100 (FF 100 / 80)
Shaft Diameter	190	19j6 x 40.0
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)	8.0	Stall Current (A)	5.0
Rated Torque (N.m)	6.9	Nominal Current (A)	4.3
Motor Peak Torque (N.m)	24.0	Kt (Nm/A)	1.6
Rated Power (kW)	2.17	Ke (V/kmin ⁻¹)	98.0
Winding Thermal Time Constant (s)	98	R (ph-ph) (Ohm)	2.68
Number of Poles	10	L (ph-ph) (mH)	21.72
Maximum Cogging (N.m)	0.03		
Inertia (kg.cm ²)	2.64	Weight (kg)	6.5
Ingress Protection Level (IP)	IP65		
Brake	Type 6	Static Torque (N.m)	10
Release Time (ms)	82	Backlash (°)	0.45
Brake Supply Voltage (V)	24	Brake Coil Power (W)	18.5

Torque / speed graph

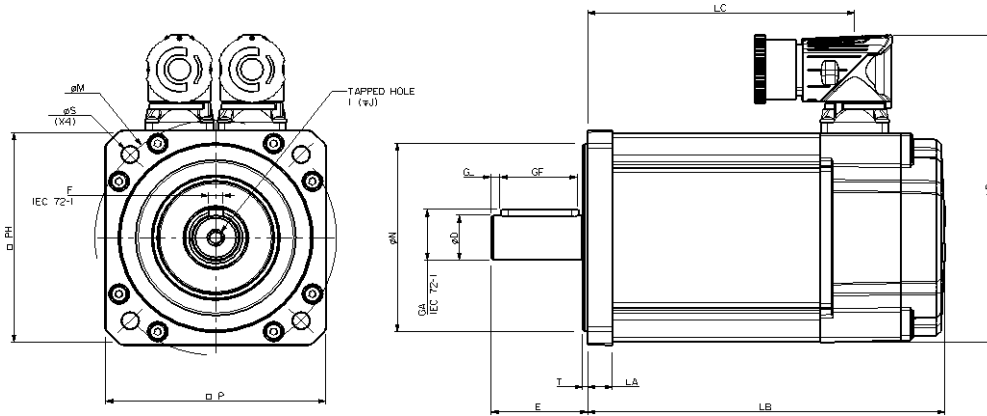


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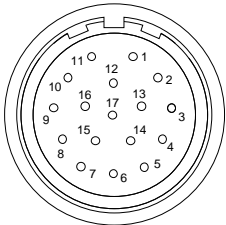
Motors (° & mm)



LB	Total length	260.9
LC	Connector position	210.6
LA	Flange thickness	10.3
T	Register Length	2.2
N	Register Diameter	80.0
LD	Connector overall height	130.5
P	Flange Square	91.0
S	Fixing Hole Diameter	7.0
M	Fixing hole PCD	100.0
PH	Motor Housing Width	89.0
D	Shaft Diameter	19j6
E	Shaft Length	40.0
GA	Key Height	21.5
GF	Key Length	32.0
G	Key to Shaft End	3.7
F	Key Width	6.0
I	Tapped Hole Thread Size	M6 x 1.0
J	Tapped Hole Depth	17.0
	Mounting Bolt	M6

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 - 0 V |
| 9 - W/ | Screen |

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

