

N° : 980

Date : 26 March 2018

SERVO MOTOR 070JDD200XBCRA



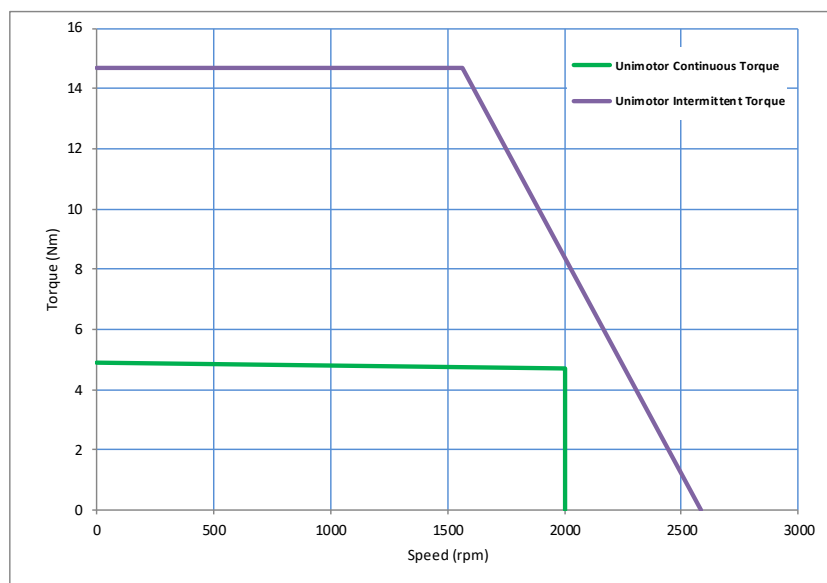
Definition

Type	Unimotor HD	
Frame Size (mm)	070	
Voltage	U	U - 400V
Magnet type	D	D - High dynamic
Frame Length	D	
Speed (min-1)	20	2000
Brake	0	Unbraked
Connection type	X	X - Power size 1 8-way, and Signal size 1 17-way 90° rotatable
Output shaft	B	No key
Feedback device code	CR	CR - 4096 ppr Incremental encoder (R35i)
Inertia & thermistor	A	A - Standard + KTY84-130 thermistor
PCD	78.5	78.5 (FF 70 / 60)
Shaft Diameter	140	14j6 x 30.0
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 (N.m)	4.9	Stall Current (A)	2.2
Rated Torque (N.m)	4.7	Rated Current (A)	2.0
Motor Peak Torque (N.m)	14.7	Kt (Nm/A)	2.4
Rated Power (kW)	1.0	Ke (V/kmin-1)	147.0
Winding Thermal Time Constant (s)	69	R (ph-ph) (Ohm)	16.9
Number of Poles	10	L (ph-ph) (mH)	64.0
Maximum Cogging (N.m)	-		
Inertia (kg.cm ²)	0.97	Weight (kg)	3.8
Ingress Protection Level (IP)	IP65		

Torque / speed graph

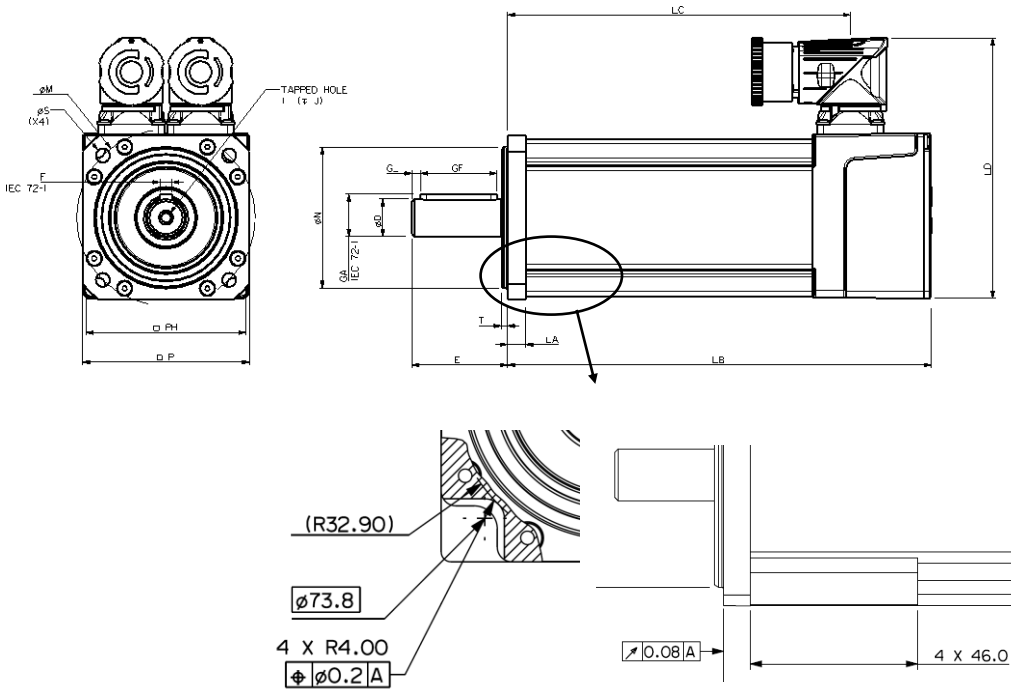


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SERVO MOTOR - Unimotor HD 070UDD200XBCRA

Motor (° & mm)



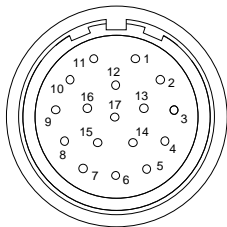
LB	Total length	232.9
LC	Power connector position	198.8
LA	Flange thickness	7.5
T	Register Length	2.4
N	Register Diameter	60.0
LD	Connector overall height	111.5
P	Flange Square	70.0
S	Fixing Hole Diameter	6.4
M	Fixing hole PCD	78.5
PH	Motor Housing Width	70.0
D	Shaft Diameter	14j6
E	Shaft Length	30.0
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	M5x0.8
J	Tapped Hole Depth	13.5
	Mounting Bolt	M5

DETAIL OF ADDITIONAL HOUSING CUT-OUTS (x 4)

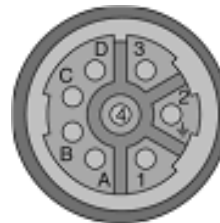
Motor electrical interface

Feedback device code : CR - 4096 ppr Incremental encoder (R35)

Connection type : Power 8-way and Signal size 1 90° rotatable
 Conductors size : 4G1 (A)



- | | |
|---------------|---------|
| 1 - Sense +5V | 10 - 0V |
| 2 - S1 | 11 - |
| 3 - S1- | 12 - B |
| 4 - Sense 0V | 13 - B- |
| 5 - S2 | 14 - Z |
| 6 - S2- | 15 - A |
| 7 - Power | 16 - A- |
| 8 - S3 | 17 - Z- |
| 9 - S3- | Screen |



- | |
|--------------------|
| 1 - U |
| 2 - Earth |
| 3 - W |
| 4 - V |
| A - Thermistor +ve |
| B - Thermistor -ve |
| C - |
| D - |