

Date: 28 Aug 24 (v1)



Enquiry N°: 2476

Created by: DB / Checked by: EG

SERVO MOTOR 142UDB300BACAA165240

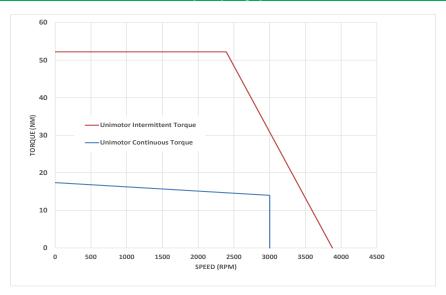


142UDB300BACAA165240

Definition				
Туре	Unimotor HD			
Frame Size (mm)	142			
Voltage	U	400 V		
Magnet type	D	High Dynamic		
Frame Length	В			
Speed (min-1)	30	3000		
Brake	0	Unbraked		
Connection type	В	Power and Signal size 1 90° rotatable		
Output shaft	Α	With output key		
Feedback device code	CA	4096 ppr Incremental encoder (CFS50)		
Inertia & thermistor	Α	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)	11.0	
Rated Torque (Nm)	14.0	Nominal Current (A)	8.75	
Motor Peak Torque (Nm)	52.2	Kt (Nm/A)	1.6	
Rated Power (kW)	4.4	Ke (V/kmin-1)	98.0	
Winding Thermal Time Constant (s)	240	R (ph-ph) (Ohm)	0.6	
Number of Poles	10	L (ph-ph) (mH)	8.6	
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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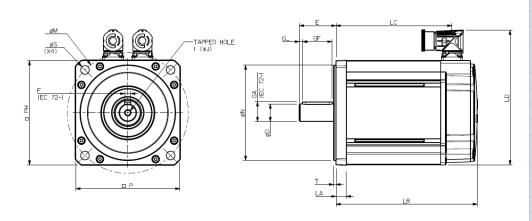


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Motors (° & mm)

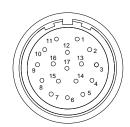


LB	Total length	187.0
LC	Power connector position	152.5
LA	Flange thickness	14.0
T	Register Length	3.4
N	Register Diameter	130.0
LD	Connector overall height	183.5
Р	Flange Square	142.0
S	Fixing Hole Diameter	12.0
М	Fixing hole PCD	165.0
PH	Motor Housing Width	142.0
D	Shaft Diameter	24j6
Е	Shaft Length	50.0
GA	Key Height	27.0
GF	Key Length	40.0
G	Key to Shaft End	4.6
F	Key Width	8.0
1	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)

9 - W/



1 - Thermistor 10 - A 2 - Thermistor 11 - Z 12 - Z/ 3 -4 - U 13 - A/ 5 - U/ 14 - B 6 - V 15 - B/ 7 - V/ 16 - Power 8 - W 17 - 0V

Body - Screen

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

