



Enquiry N°: 2268 Created by: DB Checked by EG

SERVO MOTOR - 142UDC300BFAEA165240-JSHJ

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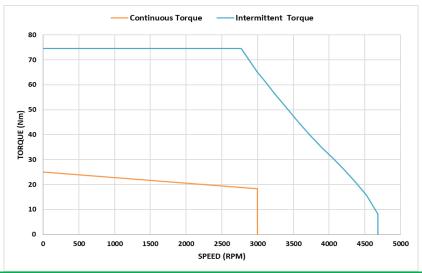
HIGH INERTIA



Definition				
Туре	Unimotor HD			
Motor frame size (mm)	142			
Voltage (Vdc)	U	430V		
Magnet type	D	High Dynamic		
Frame Length	С			
Speed (min ⁻¹)	30	3000		
Brake	0	Unbraked		
Connection type	В	PWR RA Rotatable T1 & SIG RA Rotatable T1		
Output shaft	F	Key and half key supplied separately		
Feedback device code	AE	Resolver (Size 52)		
Inertia & thermistor	A - JSHJ	PTC thermistor + High inertia		
PCD	165	165 (FF 165/130)		
Shaft Diameter	240	24j6 x 50		
Fan Box	-			
Insulation class	F			
UL Motor / UL Stator	UL Motor / UL Stator			

Motor Characteristics				
Motor Ambient Temperature (°C)	40	Drive Fsw (kHz)	12	
Motor Stall Torque (Nm)	25	Stall Current (A)	16.0	
Rated Torque (Nm)	18.4	Nominal Current (A)	12.8	
Motor Peak Torque (Nm)	75	Max Current for Peak Torque at Stall (A)	61.3	
Rated Power (kW)	5.8	Kt (Nm/A) @cold	1.6	
Winding Thermal Time Constant (s)	245	Ke (V/kmin-1) @cold	98	
Number of Poles	10	R (ph-ph) (Ohm) @Hot	0.53	
Maximum Cogging (Nm)	0.38	L (ph-ph) (mH)	7.45	
Inertia (kg.cm²)	40.1	Weight (kg)	16.6	
Ingress Protection Level (IP)	IP65	R (ph-ph) at ambient temperature (Ohm)	0.39	

Torque / Speed Graph



Motor Dimensions (mm)

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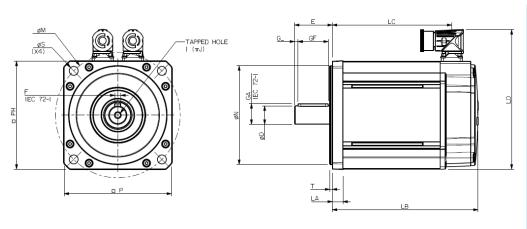


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Data sheet

Date: 20 Apr 23 (v1)

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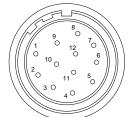


LB	Total length	247
LC	Power connector position	212.5
LA	Flange thickness	14
T	Register Length	3.4
N	Register Diameter	130
LD	Overall height	183.5
Р	Flange Square	142
S	Fixing Hole Diameter	12
M	Fixing hole PCD	165
PH	Motor Housing Width	142
D	Shaft Diameter	24j6
E	Flange to Shaft End	50
GA	Key Height	27
GF	Key Length	40
G	Key to Shaft End	4.6
F	Key Width	8
1	Tapped Hole Thread Size	M8 x 1.25
J	Tapped Hole Depth 20	
	Mounting Bolt	M10

Connectors

Signal connection: AE - Resolver (Size 52)

Power connection: Size 1 - Type B





SIN

SIN/



11

12 Body



Pin	Colour	Function
1	ORANGE	PHASE U (R)
2	RED	PHASE V (S)
3	GREEN/YELLOW	EARTH
4	YELLOW	PHASE W (T)
5		
6		
7	Body	Screen

Screen

1

3

5