



Enquiry N°: 2579 Created by: SB / Checked by FA

SERVO MOTOR - 142UDC200BACAA165240-JSHJ

142UDC200BACAA165240-JSHJ

HIGH INERTIA

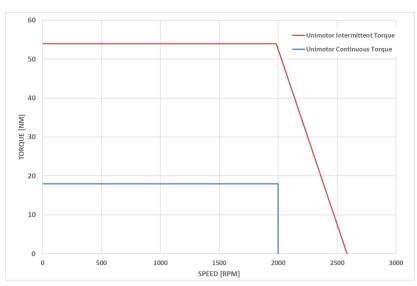
(motor derated – torque output from motor limited by output shaft diameter)



Definition			
Туре	Unimotor HD		
Motor frame size (mm)	142		
Voltage (Vdc)	U	430V	
Magnet type	D	High Dynamic	
Frame Length	С		
Speed (min-1)	20	2000	
Brake	0	Unbraked	
Connection type	В	PWR RA Rotatable T1 & SIG RA Rotatable T1	
Output shaft	A	With output key	
Feedback device code	CA	Incremental Encoder CFS50	
Inertia & thermistor	A - JSHJ	PTC thermistor + High inertia	
PCD	165	165 (FF 165/130)	
Shaft Diameter	240	24j6 x 50 (torque output from motor limited by output shaft dia)	
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)	18.0	Stall Current (A)	7.5	
Rated Torque (Nm)	18.0	Nominal Current (A)	7.5	
Motor Peak Torque (Nm)	54.0	Kt (Nm/A) @cold	2.4	
Rated Power (kW)	4.5	Ke (V/kmin-1) @cold	147.0	
Winding Thermal Time Constant (s)	245	R (ph-ph) (Ohm) @Hot	0.8	
Number of Poles	10	L (ph-ph) (mH)	12.2	
Typical Cogging (Nm)	0.38			
Inertia (kg.cm²)	40.10	Weight (kg)	16.6	
Ingress Protection Level (IP)	IP65			

Torque / Speed Graph



Page 1 of 2



Date: 11 Feb 25 (v1)

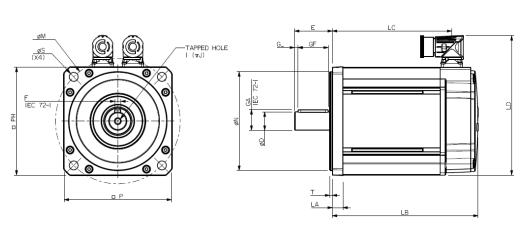


Enquiry N°: 2579

Created by: SB / Checked by FA

SERVO MOTOR - 142UDC200BACAA165240-JSHJ

Motor Dimensions (mm)

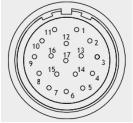


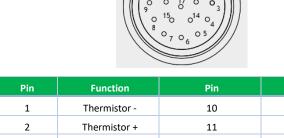
17
.2.5
ļ
4
0
3.5
2
55
2
j6
)
1
)
8 x 1.25
)

Connectors

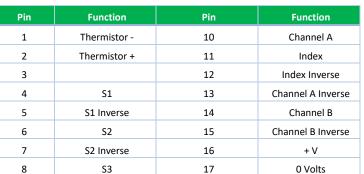
Signal connection: CA - 4096 ppr Incremental encoder (CFS50)







S3 Inverse



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

9

Screen