

Enquiry N°: Created by: JD / Approved by: DB

SERVO MOTOR - 060LDB300LGCTG100620-SGV1

SMA506 060LDB300LGCTG100620-SGV1

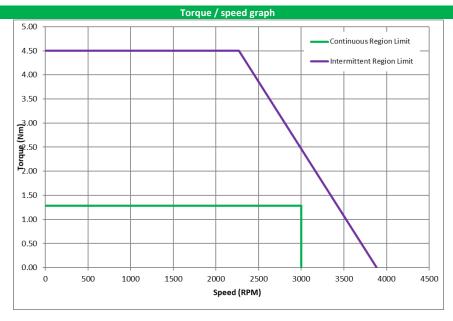
AGV Solution Motor + Gearbox + Wheel

Up to 400kg Payload



Definition					
Туре	Unimotor HD				
Frame Size (mm)	060				
Voltage	L	Ultra-Low Voltage			
Magnet type	D	High Dynamic			
Frame Length	В				
Speed (min ⁻¹)	30	3000 @48Vdc – 1500@ 24Vdc			
Brake	0	Unbraked			
Connection type	L	Flying lead power (0.5 m) with RoboteQ drive connection			
Output shaft	G	Integrated Gearbox Shaft			
Feedback device code	СТ	4096ppr incremental encoder (CTD/Motion)			
Inertia & thermistor	G	Standard inertia + No thermistor			
PCD (Gbox)	100	100 (Gear box)			
Shaft Diameter	620	G BOX output			
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 (Nm)	1.28	Stall Current (A)	9.79			
Rated Torque (Nm)	1.28	Nominal Current (A)	9.79			
Motor Peak Torque (Nm)	4.5	PeaK Current (A)	29.37			
Rated Power (kW)	0.40	Kt (Nm/A)	0.13			
Winding Thermal Time Constant (s)	55	Ke (V/kmin-1)	8.30			
Number of Poles	10	R (ph-ph) (Ohm)	0.23			
Maximum Cogging (Nm)	0.02	L (ph-ph) (mH)	0.7			
Inertia Motor + Gearbox (kg.cm²)	~0.5	Weight Motor + Gearbox (kg)	~5.7			
Ingress Protection Level (IP)	IP54					



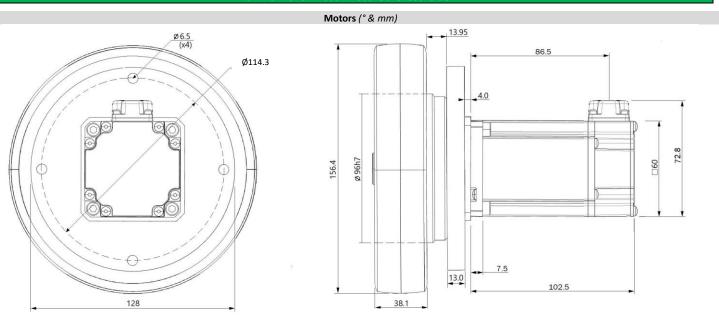
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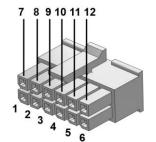


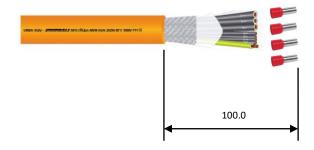
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	Motor electrical interface Connectors option:							
	Feedback device code:				Connection type:			
	CT – 4096ppr incremental encoder			ncoder	L – Power & Signal flying leads Roboteq connection			
1	Power	7	CH A		U	Black 1		
2	S1	8	-		V	Black 2		
3	S2	9	СН В		W	Black 3		
4	S3	10			Earth	Green/Yellow		
5	GND	11			Black	N.C.		
6		12			White	e N.C.		
Si	Signal Cable: 500mm (from gland to customer end))	Power Cable: 500mm (from gland to customer end)			
12	12-Way MOLEX Connector, Molex part number 43025-1200, loom with PVC			025-1200, loom with PVC	Cable 4 + 2 core orange PUR screend			
jacket.				4 x 1.0mm ² wires 300/500V				
					2x 0.5mm² wires (not connected)			
					Cable O/D 9.8mm			
				With red ferrules				









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Gear Box characteristics							
Ratio	9	Backlash (arc/min)	≤7				
Stages	1	Radial Load (Fr, N) @ Fa=0, Input Speed Nom	3500				
Inertia (kg.cm²)	~0.2	Radial Load MAX (Fr, N)	7250				
Weight (kg)	2.7	Axial Load (Fa, N) @ Fr=0, Input Speed Nom	2200				
Efficiency	95%						

