



Data Sheet

Miniaturized Galaxie®

SAG090A-060N-GNS				
No.	Drive System	Symbol	Unit	Value
1.	Nominal Output Torque	T_{2n}	Nm	55
2.	Maximum Acceleration Torque	T_{2B}	Nm	150
3.	Nominal Input Speed	n_{2n}	1/min	1200
4.	Maximum Input Speed	n_{2max}	1/min	4200
5.	Idling Torque	T_{012}	Nm	1 to 2
6.	Overall Ratio	i	-	60
7.	Torsional Rigidity	C_{t21}	Nm/arcmin	35 *
8.	Torsional Rigidity	K_3	Nm/arcmin	24 **
9.	Torsional Rigidity	K_2	Nm/arcmin	23 **
10.	Torsional Rigidity	K_1	Nm/arcmin	17 **
11.	Maximum Torsional Backlash	j_t	arcmin	Zero
12.	Maximum Axial Force	F_{2Amax}	N	-
13.	Maximum Tilting Moment	M_{2kmax}	Nm	150
14.	Emergency Stop Torque	T_{2Not}	Nm	375
15.	Operating Temperature	ϑ_U	°C	0 to 30
16.	Storage Temperature	ϑ_U	°C	0 to 40
17.	Weight	m	kg	1.5
18.	Moment of Inertia (with Brake)	J_1	kgcm ²	1.23
19.	Protection Class	IP	IP65	
20.	Type of Lubrication	Grease		
21.	Paint	No Paint		
22.	Direction of Mounting	TBD		
23.	Design	-		
24.	Sensors / Intelligent Interface	No Sensors		

Date: March 2023

Author: Karoline Scheuermann

Remark: All specified values are liable to specific variabilities due to the tolerances of material properties and dimensions. The specified values are mean values at which a tolerance of $\pm 10\%$ of torque, speed, rigidity, current inductance, resistance and speed is allowed. In addition, the terminal inductance can alternate depending on the angle between motor and stator.

* Average gradient of the hysteresis in the range of 50 to 100% of T_{2B}

** K_1 : average gradient of hysteresis in the range below 10 Nm

K_2 : average gradient of hysteresis in the range between 10 and 25 Nm

K_3 : average gradient of hysteresis in the range over 25 Nm