



# Data Sheet

## Miniaturized Galaxie®

SAG110A-061N-GNS				
No.	Drive System	Symbol	Unit	Value
1.	Nominal Output Torque	$T_{2n}$	Nm	90
2.	Maximum Acceleration Torque	$T_{2B}$	Nm	250
3.	Nominal Input Speed	$n_{2n}$	rpm	-
4.	Maximum Input Speed	$n_{2max}$	rpm	3600
5.	Idling Torque	$T_{012}$	Nm	1 to 2
6.	Overall Ratio	$i$	-	61
7.	Torsional Rigidity	$C_{t21}$	Nm/arcmin	70 *
8.	Torsional Rigidity	$K_3$	Nm/arcmin	42 **
9.	Torsional Rigidity	$K_2$	Nm/arcmin	40 **
10.	Torsional Rigidity	$K_1$	Nm/arcmin	30 **
11.	Maximum Torsional Backlash	$j_t$	arcmin	Zero
12.	Maximum Axial Force	$F_{2Amax}$	N	-
13.	Maximum Tilting Moment	$M_{2kmax}$	Nm	250
14.	Emergency Stop Torque	$T_{2Not}$	Nm	625
15.	Operating Temperature	$\vartheta_U$	°C	0 to 30
16.	Storage Temperature	$\vartheta_U$	°C	0 to 40
17.	Weight	$m$	kg	2.5
18.	Moment of Inertia (with Brake)	$J_1$	kgcm <sup>2</sup>	2.34
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 15 Nm

$K_2$ : average gradient of hysteresis in the range between 15 and 50 Nm

$K_3$ : average gradient of hysteresis in the range over 50 Nm