Technical data

This page gives the **technical data** of the Green Drive ISO roto-linear unit. The table lists the electrical and mechanical parameters for the linear and the rotary axis.



GDiR250XS2-200-G2S1

Parameter	Value	Unit
Rated Force (Linear)	117	N
Peak Force (Linear)	500	N (5% duty)
Rated Current (Linear)	2	Arms
Peak Current (Linear)	9	A
Pole pitch (Linear)	60	mm
Force constant (Linear)	56	N/A
BEMF constant (Linear)	32.35	Vrms/m/s
Phase-Phase resistance	11.6	ohm
Phase-Phase inductance	15	mH
Rated Torque (Rotary)	2.4	Nm
Peak Torque (Rotary)	10	Nm
Rated Current (Rotary)	2	Arms
Peak Current (Rotary)	8	A
Voltage constant	88	V/krpm
Torque constant	1.46	Nm/A
Phase-Phase resistance	8.3	ohm
Phase-Phase inductance	18	mH
Nominal Speed (Rotary)	3000	rpm

Notes on the data

- The **linear** values (force, current, pole pitch, force constant) refer to the linear axis. - The **rotary** values (torque, current, voltage constant, torque constant) refer to the rotary axis. - The **phase resistance** and **phase inductance** are given for the linear and the rotary winding. - The nominal speed of the rotary axis is 3000 rpm; verify the duty cycle and the application requirements.

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