

Project Report

This document reports the Motor Sizing Tool results.

General Project Information:

Name: Project

Date: 15/03/2021 21:40:32

Comments:

Author:

Name:

Department:

Mail:

Customer:

Identifier:

Name:

Company:

Phone:

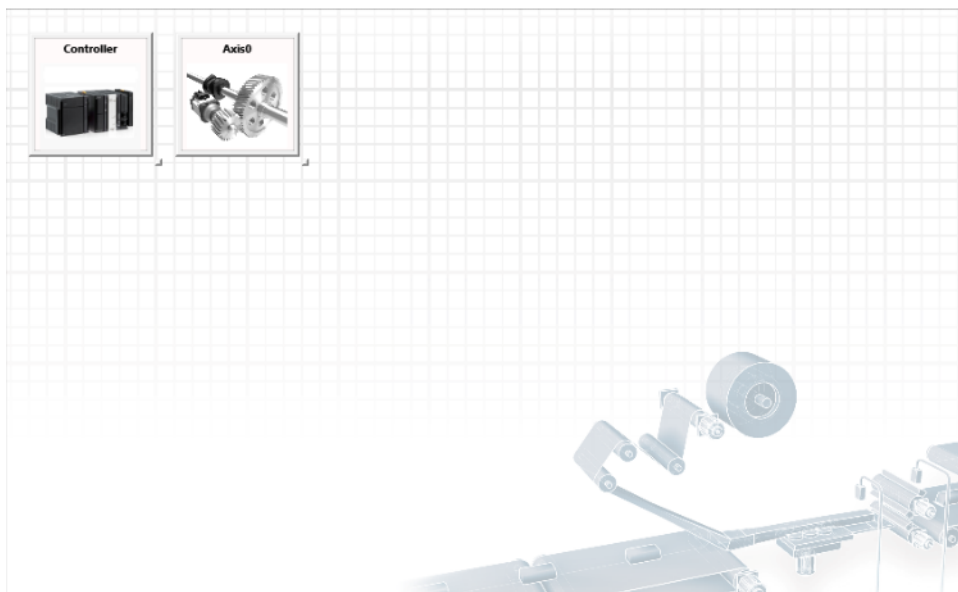
Address:

Mail:

Disclaimer: In this motor selection program, mechanism, friction and external forces are modeled using simplified calculation. So, there can be a difference between the calculated result and the real application. So, the result of this selection program can be used just as reference. OMRON SHALL NOT BE RESPONSIBLE FOR SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE USE OF THIS TOOL.

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Machine: Machine



Controller:

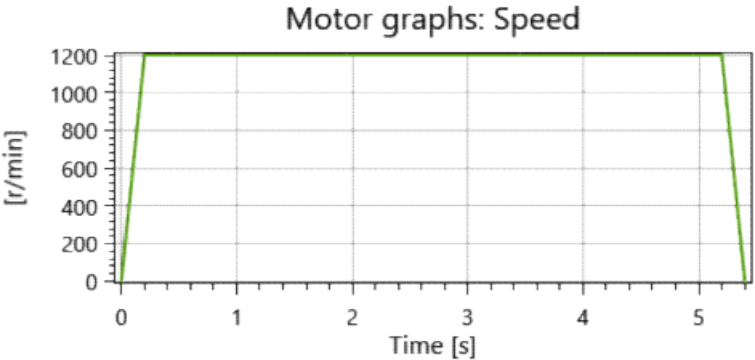
Name: Controller
Model: NJ501-1300 v1.12
Supply: AC_100to240V

Machine Part-list of devices:

Device	Model	Quantity
Motor	R88M-K10030H-S2	1
Drive	R88D-KN01H-ECT	1
Drive Filter	R88A-FIK102-RE	1
Encoder cable	R88A-CRKA003CR-E	1
Power cable	R88A-CAKA003SR-E	1

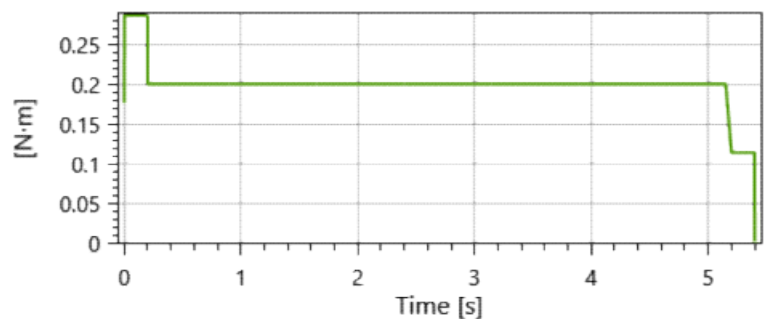
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Axis: Axis0

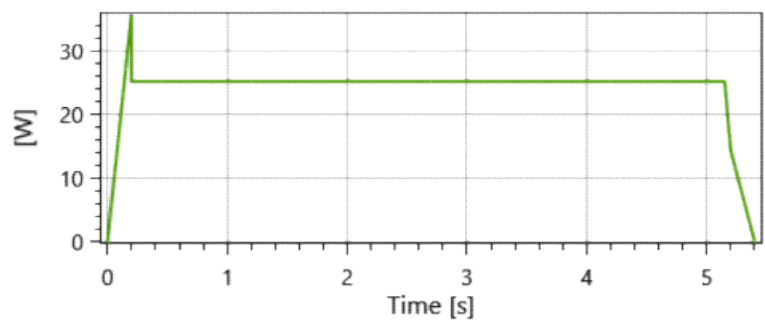


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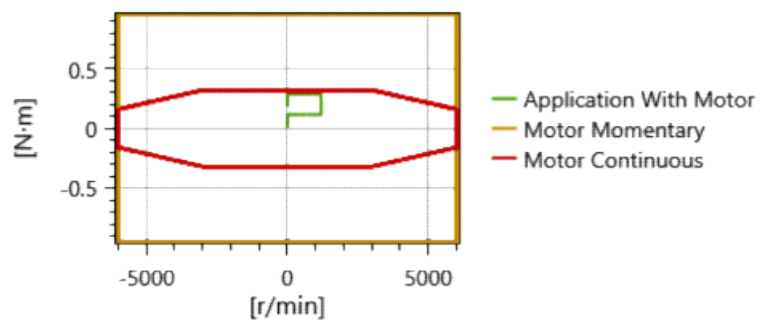
Motor graphs: Torque



Motor graphs: Power



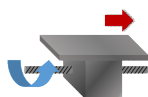
Motor graphs: Torque-Speed



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Property	Value
Name	Rotary_Motor1
Model Name	R88M-K10030H-S2



Property	Value
Name	Ball_Screw1
Screw Inertia [kg·m ²]:	3.0304e-005
-Outer Diameter (De) [mm]:	16.0
Screw Pitch [mm]:	5.0
Table Mass [kg]:	100.0
Transmission Efficiency Motor	85
Transmission Efficiency Brake	85
Friction Coefficient	0.1
Inclination	0
Constant friction [N·m]:	0.0
Calculated Inertia [kg·m ²]:	9.3630e-005
Accumulated Down Inertia [kg·m ²]:	9.3630e-005

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