

Customer:

Plant:

Customer No.:

Last saved: 22.10.2019 - 13:00

Project: Napęd przenośnika 230V

Author:

Comment:

1. Application data

1.1. Drive system / Supply system (1) / 2KJ3500-5BD21-4FQ1 [Travel drive / hoist drive / conveyor]

Mechanical data:

| Travel drive / hoist drive / conveyor | |
|---|----------------------------------|
| Version | Bulk goods belt conveyor |
| Steady payload | 15,000 kg |
| Steady payload in relation to the conveyor length | 0,000 kg/m |
| Conveyor length | 1,500000 m |
| Total mass of all belt rollers | 2,000 kg |
| Total inertia of all belt rollers | 0,000000 kg m2 |
| Diameter of the belt roller | 58,000 mm |
| Mass of the belt | 1,000 kg/m |
| Mass of the drive chains | 1,000 kg |
| Type of travel resistance | Specific coefficient of friction |
| -- Specific coefficient of friction | 0,3300 |
| Friction torque | 0,00 Nm |
| Angle of inclination | 0,0 deg |
| Efficiency | 0,950 |
| Additional inertia (load) | 0,000000 kg m2 |
| Additional inertia (motor) | 0,000000 kg m2 |

Properties:

| | |
|--|-----|
| Allow for friction by means of control at standstill | Yes |
| Allow for mechanical limit values | No |
| Allow for rounding | No |
| -Jerk limitation | No |
| --Use mech. limit values as default values | No |
| -Rounding time | No |

Cycle: 12,00000 s

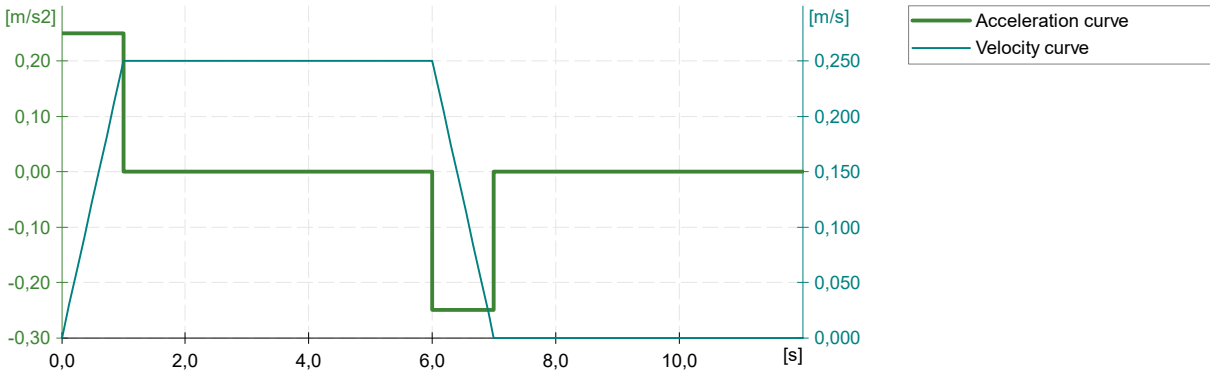
Traversing profile data as trapez./triangular:

| Section 1 | | |
|------------------------------------|------------------|--------------|
| Entries | | s,v,ab,av->t |
| Direction | | Forward, up |
| Default values | | |
| Traversing distance | m | 1,500000 |
| Travel time | s | |
| Acceleration time | s | |
| Deceleration time | s | |
| Pause time | s | 5,00000 |
| Velocity | m/min | 15,00 |
| Acceleration | m/s ² | 0,25000 |
| Deceleration | m/s ² | 0,25000 |
| Load values | | |
| Additional force | N | |
| Additional mass | kg | |
| Additional only for constant speed | | no |
| Brake during pause | | no |
| Attained values | | |
| Max. velocity | m/s | 0,250 |
| Max. acceleration | m/s ² | 0,25000 |
| Max. deceleration | m/s ² | 0,25000 |
| Travel time | s | 7,00000 |
| ~ Acceleration | s | 1,00000 |
| ~ Constant speed | s | 5,00000 |
| ~ Deceleration | s | 1,00000 |

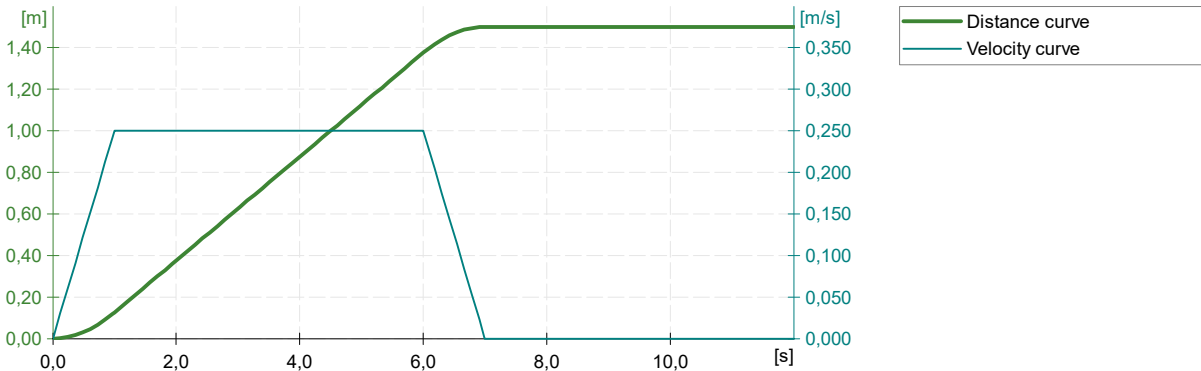
Customer:
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| | | |
|-------------------|------------------|--|
| Jerk limitation | | |
| Max. accel. jerk | m/s ³ | |
| Max. decel. jerk | m/s ³ | |
| Max. acceleration | m/s ² | |
| Max. deceleration | m/s ² | |

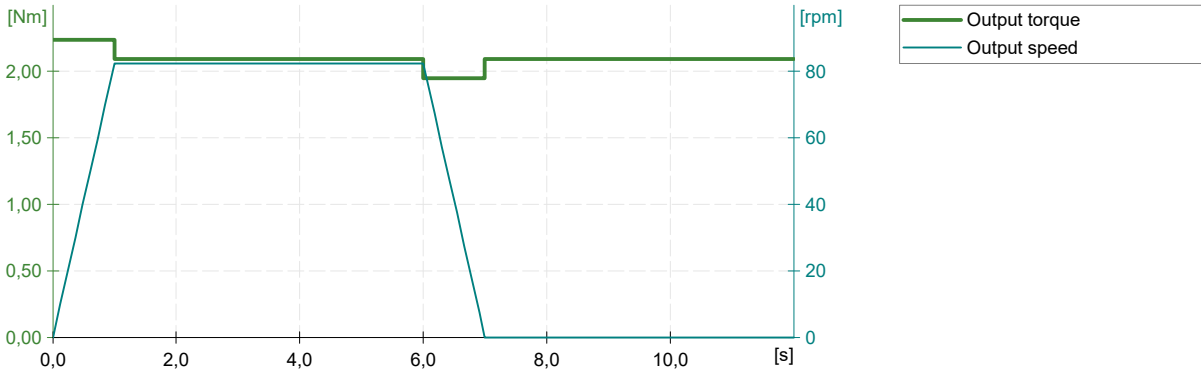
Acceleration/velocity - time diagram:



Distance/velocity - time diagram:



Load/speed - time diagram:



Traversing profile data as individual trav. sections:

| Type | Duration [s] | v-end [m/s] | s-end [m] | Additional force [N] | Additional mass [kg] | Holding brake |
|---------------|--------------|-------------|-----------|----------------------|----------------------|---------------|
| Section 1, ab | 1,00000 | 0,250 | 0,13 | 0,000 | 0,000 | No |
| Section 1, v | 5,00000 | 0,250 | 1,38 | 0,000 | 0,000 | No |
| Section 1, av | 1,00000 | 0,000 | 1,50 | 0,000 | 0,000 | No |
| Section 1, p | 5,00000 | 0,000 | 1,50 | 0,000 | 0,000 | No |