

Selection parameters

General requirements

- Common application, no specific requirements
- Both sides power transmission
- Utilisation as tangential belt
- Low creep, high accuracy and uniform number of revolution
- High efficiency, low energy consumption
- Short take-up (in combination with long belts)
- Wide and large pulleys
- Crossed drive
- Permanently antistatic

Mechanical influences

- Heavy shock loads
- Small pulleys, high bending cycle frequency
- High belt speed, low vibration required
- Transverse bending and / or twist
- Rough belt handling (during installation etc.)

Environmental influences

- Very wet, dirty and / or dusty conditions
- Considerable oil and / or grease influence
- Changing climat (humidity, temperature)
- Operating temperature > 60 °C/140 °F (continuous)

Joining system

- Skived and glued joint (Thermofix)
- Adhesive free joint (Flexproof)
- Seamless

Calculation parameters

Power to be transmitted

kW or PS

Service factor

1)

Center distance

mm or effective belt length mm

Pulleys

Driving pulley

mm

Width

mm

Arc of contact

°

Number of revolution

rpm

Driven pulley

mm

mm

°

rpm

Tension pulley

2) mm

mm

°

Ambient temperature

Minimum

°C

Maximum

°C

Alternative parameters

1) Start up:

- Smooth starting
- Medium starting
- Abrupt starting

Operating conditions:

- Uniform operation
- Medium inertia forces
- Heavy shock loads

Environmental influences:

- Very wet
- Oil or grease
- Dusty conditions

2) Drive with tension pulley

- Tension pulley on slack side
- Tension pulley on tight side

Measurements

- Tension pulley outside
- Tension pulley inside

x_2 mm

y_2 mm

x_t mm

y_t mm

