

Application data sheet

General information

Company name
 Contact name
 Telephone number
 Subject / reference
 E-mail address
 Date

Type of request

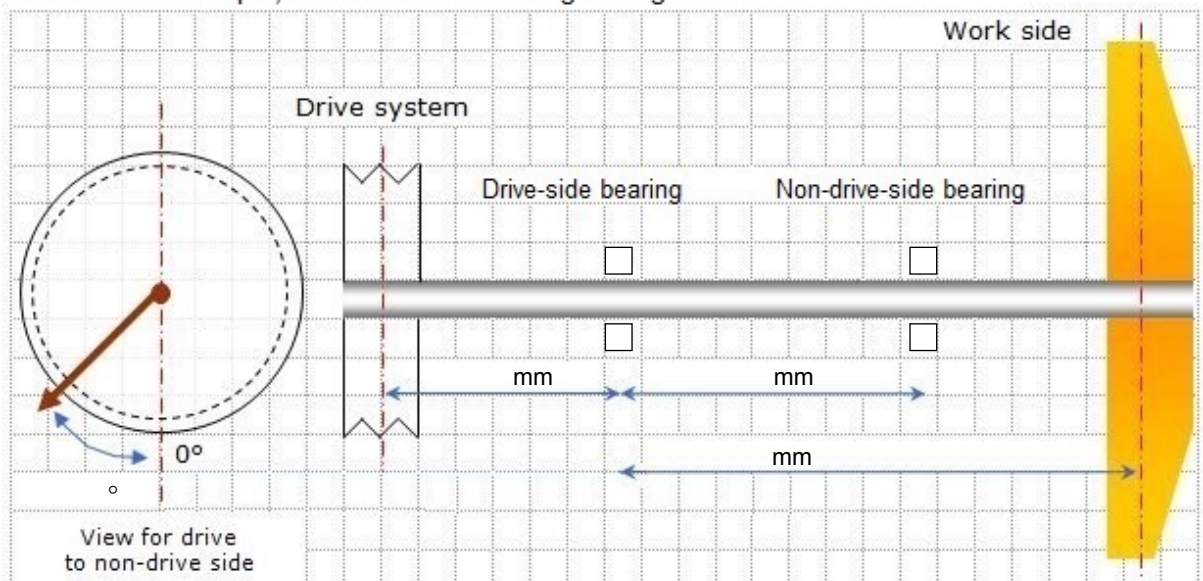
- New development
 Design verification
 Problem solving
 Other

Application

Description

- Continuous
 Not continuous, hours a day
 h/day

Sketch: For example, of an industrial bearing arrangement.



For a different configuration, please add an assembly drawing with corresponding distance of the different components and orientation of the load.

Loads

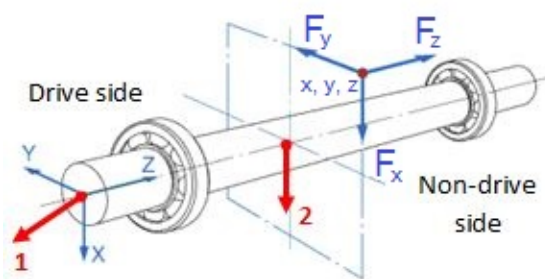
For a single bearing only:

Radial load kN
 Axial load kN

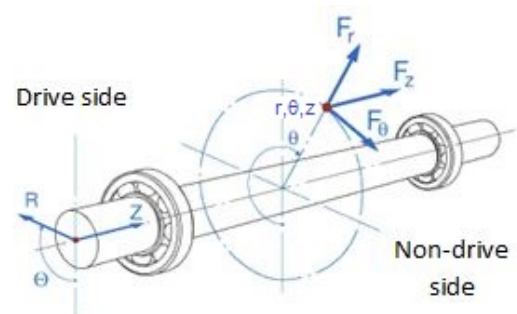
For a shaft and bearings:

Select one of the coordinates system below the loads on the shaft.

- Cartesian coordinates Polar coordinates



Gravity in X-direction



Gravity in direction of $\theta = 0^\circ$

Loads*	Position			External loads		
	X/r	Y/ θ	Z	F_x/F_r	F_y/F_θ	F_z
	mm	mm/deg	mm	kN	kN	kN
1						
2						

* Supply information for additional loads in a separate document.

- Peak load kN
 Alternating load *Direction of load changes during operation.*
 Moment load Nm

If load and/or speed change over time, provide details of the load/speed cycle.

Speed

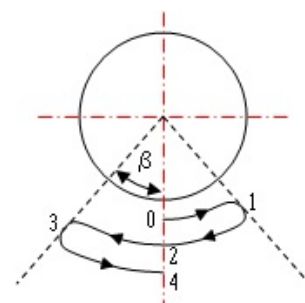
Nominal speed r/min
 Minimum r/min
 Maximum r/min
 Acceleration m/s²
 Direction

Drive system

Power		kW
<input type="checkbox"/> With coupling		
Type of coupling		
Weight of coupling		N
<input type="checkbox"/> With belt drive		
Type of belt		
Weight of pulley		N
Pitch diameter of pulley		mm
Direction of tension θ		°
<input type="checkbox"/> With gears (spur or helical)		
Nominal pressure angle α_n		°
Helix angle β		°
Module m_n		mm
Gearmesh position/angle		°
Number of teeth pinion z_1		
Number of teeth wheel z_2		
Centre distance pinion/wheel		mm
Gear	<input type="radio"/> driving	<input type="radio"/> driven
Helix hand	<input type="radio"/> none	<input type="radio"/> left-hand <input type="radio"/> right-hand
Rotation	<input type="radio"/> clockwise	<input type="radio"/> counter-clockwise

Oscillating application

Oscillating angle β		°
Frequency f		min ⁻¹
Period t		seconds
Alternating load direction	<input type="checkbox"/>	
Alternating load frequency		min ⁻¹



If load and/or speed changes over time, provide details of the load/speed cycle.

Life requirement		h
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Bearing

For a single bearing, provide details for the drive side only.

	Drive side	Non-drive side
Bearing part number		
Locating bearing	<input type="radio"/>	<input type="radio"/>
Operating temperature	/ °C	/ °C
	<i>Inner ring</i> <i>Outer ring</i>	<i>Inner ring</i> <i>Outer ring</i>
Temperature range	min. °C	max. °C

Bearing interface

	Drive side	Non-drive side
Shaft material		
Housing material		
Tolerance shaft		
Tolerance housing		

Lubrication

Lubrication system

Grease lubrication

Grease type (part number)

Relubrication interval h

Relubrication quantity g

Shaft orientation Horizontal Vertical

Rotating ring Inner ring Outer ring

Oil lubrication

Oil type (part number)

Oil bath

Oil bath temperature °C

Oil level at standstill (x) mm 

Oil circulation

Oil temperature at sump °C

Oil flow l/mm

Sealing

Integrated sealing (i.e. sealed bearing)

External sealing

Seal bore diameter mm

Seal outer diameter mm

Seal width mm

Medium to be sealed

Internal

External

Pressure bar

Add any other requirements for seals.

Environment

Ambient temperature °C

Yes	No	Comments
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<input type="radio"/>	<input type="radio"/>	Contaminaton
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<input type="radio"/>	<input type="radio"/>	Humidity/Moisture
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<input type="radio"/>	<input type="radio"/>	External heat source
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<input type="radio"/>	<input type="radio"/>	Cooling
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Other