NN 3010 KTN/SP

Cylindrical roller bearings, double row, super-precision

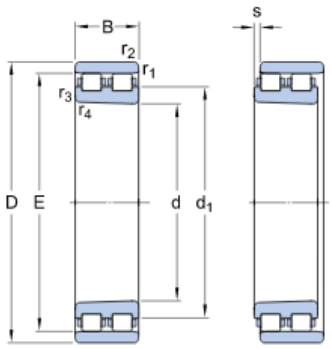
Product details

Tolerances,
SP, UP, SP and UP for 1:12 tapered bore,
Radial internal clearance,
table

Principles of bearing selection and application

Chamfer dimensions,
Seat tolerances for standard conditions,
shafts, housings, shafts, housings,
Initial grease fill

Technical specification

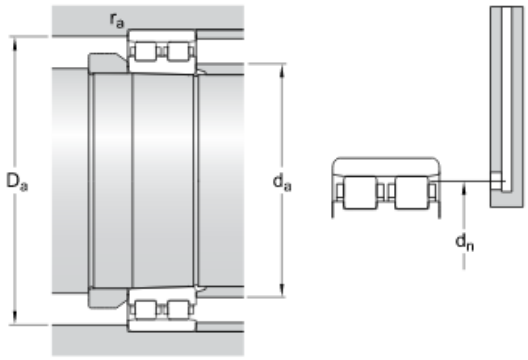


DIMENSIONS

d	50 mm
D	80 mm
B	23 mm
d_1	61.3 mm
E	72.5 mm
$r_{1,2}$	min. 1 mm
$r_{3,4}$	min. 0.6 mm
s	max. 1.5 mm
Tapered bore, taper 1:12	

ABUTMENT DIMENSIONS

d_a	min. 55 mm
D_a	min. 74 mm
D_a	max. 75 mm
d_n	71.4 mm



CALCULATION DATA

Basic dynamic load rating	C	52.8 kN
Basic static load rating	C_0	73.5 kN
Fatigue load limit	P_u	8.5 kN
Attainable speed for grease lubrication		11000 r/min
Attainable speed for oil-air lubrication		13000 r/min
Reference grease quantity	G_{ref}	2.7 cm
Static radial stiffness (guideline value)		1040 N/µm

MASS

Mass bearing	0.42 kg

More information

Product details

- Designs and variants
- Bearing data
- Preload, clearance, and stiffness
- Loads
- Attainable speeds
- Design considerations
- Mounting
- Designation system

Engineering information

- Principles of bearing selection and application
- General bearing knowledge
- Bearing selection process
- Bearing failure and how to prevent it

Tools

- SimPro Quick
- SimPro Spindle
- Engineering Calculator
- LubeSelect for SKF greases
- Heater selection tool

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