

# NKX 12 Z

Popular item

## Needle roller / thrust rolling bearings

### Bearing data

[Tolerances,](#)

Normal, ISO - F6 (Fw) + E8 (d), thrust bearing,

[Radial internal clearance,](#)

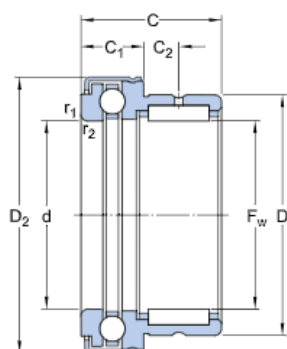
table

### Design considerations

[Shaft and housing tolerances,](#)

table

## Technical specification

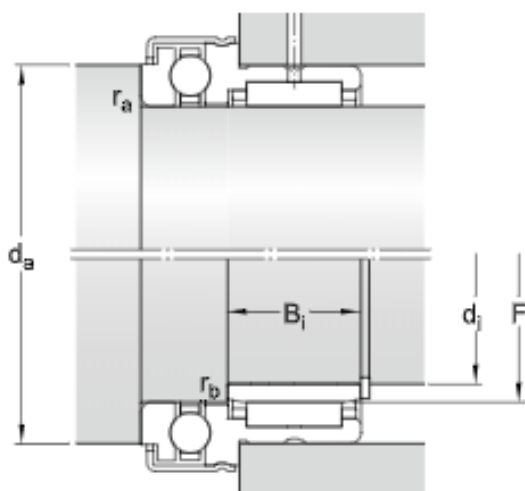


## DIMENSIONS

$F_w$	12 mm
$D$	21 mm
$C$	23 mm
$C_1$	9 mm
$C_2$	6.5 mm
$d$	12 mm
$D_2$	27.2 mm
$r_{1,2}$	min. 0.3 mm

## ABUTMENT DIMENSIONS

$d_a$	min. 21.7 mm
$r_a$	max. 0.3 mm
$r_b$	max. 0.3 mm
$d_i$	9 mm
$F$	12 mm
$B_i$	16 mm



## CALCULATION DATA

Basic dynamic load rating, radial direction	C	9.13 kN
Basic static load rating, radial direction	C <sub>0</sub>	12 kN
Basic dynamic load rating, axial direction	C	10.4 kN
Basic static load rating, axial direction	C <sub>0</sub>	16.6 kN
Fatigue load limit, radial direction	P <sub>u</sub>	1.43 kN
Fatigue load limit, axial direction	P <sub>u</sub>	0.62 kN
Minimum axial load factor	A	0.001
Reference speed		9 000 r/min
Limiting speed		7 500 r/min

## MASS

Mass bearing	0.04 kg
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## ASSOCIATED PRODUCTS

Inner ring	IR 9x12x16
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## More information

## Product details

[Needle roller / angular contact ball bearings](#)[Needle roller / thrust ball bearings](#)[Needle roller / cylindrical roller thrust bearings](#)[Bearing data](#)[Loads](#)[Temperature limits](#)[Permissible speed](#)[Design considerations](#)[Designation system](#)

## Engineering information

[Principles of rolling bearing selection](#)[General bearing knowledge](#)[Bearing selection process](#)[Bearing failure and how to prevent it](#)

## Tools

[SimPro Quick](#)[Bearing Select](#)[Engineering Calculator](#)[LubeSelect for SKF greases](#)[Heater Selection Tool](#)[skf.com/mount](#)

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