



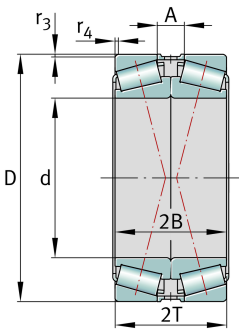
FAG

**30220-A-DF-A180-220**

## Tapered roller bearing set

Tapered roller bearing set 302...-DF, X-arrangement

## Technical information

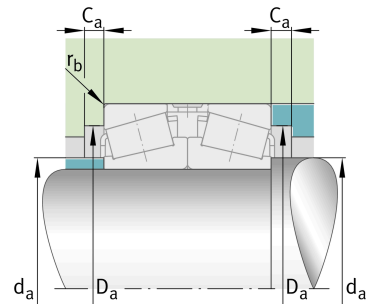


## Your current product variant

Tolerance class	PN	Normal (ISO 492:2023)
Heat treatment	Standard	
Cage	Standard	Sheet steel cage, window cage, roller-guided
Axial internal clearance	A180-220	Axial internal clearance between 180 and 220 µm
Quality level	Standard	
Matched arrangement	F	X arrangement
Number of rows	2	Double-row design

## Main Dimensions &amp; Performance Data

d	100 mm	Bore diameter
D	180 mm	Outside diameter
2B	68 mm	Inner ring total width
2T	74 mm	Outer ring total width
C <sub>r</sub>	430.000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	650.000 N	Basic static load rating, radial
C <sub>ur</sub>	72.000 N	Fatigue load limit, radial
n <sub>G</sub>	4.000 1/min	Limiting speed
n <sub>gr</sub>	2.650 1/min	Thermal speed rating
m	7,665 kg	Weight





### Mounting dimensions

$d_{a \max}$	116 mm	Maximum diameter of shaft shoulder
$D_{a \min}$	157 mm	Minimum diameter of housing shoulder
$D_{a \max}$	168 mm	Maximum diameter of housing shoulder
$C_{a \min}$	5 mm	Minimum axial space
$r_{b \max}$	2,5 mm	Maximum fillet radius of housing

### Dimensions

$r_{3,4 \min}$	2,5 mm	Minimum chamfer dimension of outer ring back face
A	16 mm	Width of spacer







### Temperature range

$T_{\min}$	-30 °C	Operating temperature min.
$T_{\max}$	120 °C	Operating temperature max.

### Calculation factors

e	0,42	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	1,61	Dynamic axial load factor
$Y_2$	2,39	Dynamic axial load factor
$Y_0$	1,57	Static axial load factor

### Characteristics

	Radial load
	Axial load in one direction
	Axial load in two directions
	Grease Lubrication
	Oil Lubrication
	Not sealed