



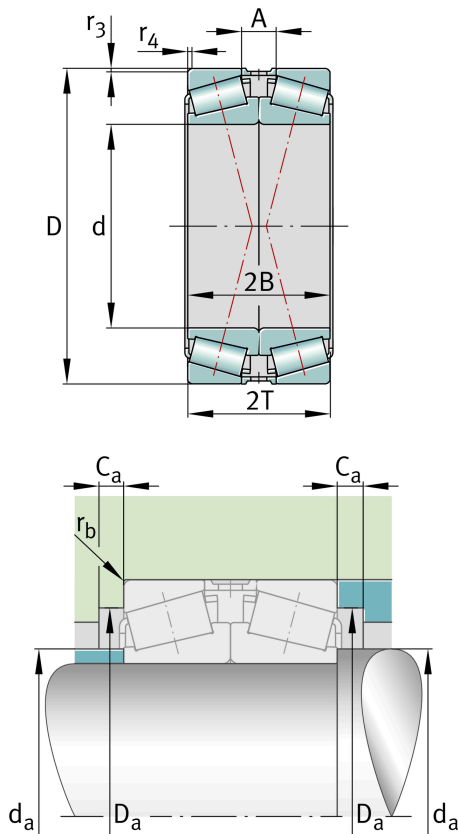
FAG

30220-A-DF-A180-220

Tapered roller bearing set

Schaeffler ID:
0841967934082Tapered roller bearing set 302...-A-DF, X-
arrangement

Technical information

**Main Dimensions & 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_r	430,000 N	Basic dynamic load rating, radial
C_{0r}	650,000 N	Basic static load rating, radial
C_{ur}	73,000 N	Fatigue load limit, radial
n_G	4,000 1/min	Limiting speed
n_{gr}	2,650 1/min	Thermal speed rating
$\approx m$	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 Fa/Fr 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