

FAG

31322-X-XL-P5-DF-A140-180

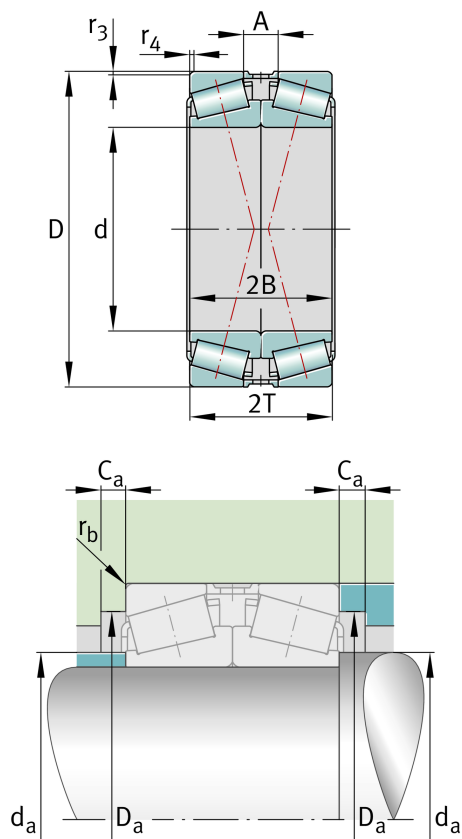
Tapered roller bearing set

Schaeffler ID:
0877792934080

Tapered roller bearing set 313...-X-XL-DF,
X-arrangement

X-life

Technical information



Main Dimensions & Performance Data

d	110 mm	Bore diameter
D	240 mm	Outside diameter
2B	114 mm	Inner ring total width
2T	126 mm	Outer ring total width
C _r	940,000 N	Basic dynamic load rating, radial
C _{0r}	1,170,000 N	Basic static load rating, radial
C _{ur}	160,000 N	Fatigue load limit, radial
n _G	3,100 1/min	Limiting speed
n _{gr}	1,890 1/min	Thermal speed rating
	25.84 kg	Weight

Dimensions

r _{3, 4 min}	3 mm	Minimum chamfer dimension of outer ring back face
A	50 mm	Width of spacer

Mounting dimensions

d _{a max}	135 mm	Maximum diameter of shaft shoulder
D _{a min}	188 mm	Minimum diameter of housing shoulder
D _{a max}	226 mm	Maximum diameter of housing shoulder
C _{a min}	7 mm	Minimum axial space
r _{b max}	3 mm	Maximum fillet radius of housing

Calculation factors

e	0.83	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y ₁	0.82	Dynamic axial load factor
Y ₂	1.22	Dynamic axial load factor
Y ₀	0.8	Static axial load factor

Temperature range

T _{min}	-30 °C	Operating temperature min.
T _{max}	200 °C	Operating temperature max.