



FAG

32018-X-XL-P5

Tapered roller bearing

Schaeffler ID:
0860122900000

Tapered roller bearing

Technical information

Main Dimensions & Performance Data

d	90 mm	Bore diameter
D	140 mm	Outside diameter
B	32 mm	Width, inner ring
C	24 mm	Width, outer ring
T	32 mm	Width, total
C _r	195,000 N	Basic dynamic load rating, radial
C _{0r}	255,000 N	Basic static load rating, radial
C _{ur}	41,000 N	Fatigue load limit, radial
n _G	5,900 1/min	Limiting speed
n _{gr}	3,200 1/min	Thermal speed rating
≈m	1.8 kg	Weight

Mounting dimensions

d _{a max}	100 mm	Maximum diameter of shaft shoulder
d _{b min}	99 mm	Minimum diameter of shaft shoulder
D _{a min}	125 mm	Minimum diameter of housing shoulder
D _{a max}	131 mm	Maximum diameter of housing shoulder
D _{b min}	134 mm	Minimum diameter of housing shoulder
C _{a min}	6 mm	Minimum axial space
C _{b min}	8 mm	Minimum axial space
r _{a max}	2 mm	Maximum fillet radius of shaft
r _{b max}	1.5 mm	Maximum fillet radius of housing

Dimensions

r _{1, 2 min}	2 mm	Minimum chamfer dimension of inner ring back face
r _{3, 4 min}	1.5 mm	Minimum chamfer dimension of outer ring back face
a	30 mm	Distance between the apexes of the pressure cones
d ₁	115.8 mm	Guidance rib diameter of inner ring

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	1.42	Dynamic axial load factor
Y ₀	0.78	Static axial load factor

Additional information

T3CC090	Comparative designation to ISO 10317 and ISO 355
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