



FAG

32018-X-XL

Tapered roller bearing

Tapered roller bearings 320, main dimensions
acc. to DIN 720, separable

X-life

Technical information

Your current product variant

Tolerance class	P6X	Class 6X (ISO 492:2023)
Heat treatment	Standard	
Cage	Standard	Sheet steel cage, window cage, roller-guided
Quality level	XL	X-life
Number of rows	1	Single-row design

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	205.000 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
$\approx m$	1,774 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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Characteristics

-  Radial load
-  Axial load in one direction
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed