

**FAG****R32216-XL**

Tapered roller bearing

Tapered roller bearings without outer ring
(Cone) 322, main dimensions acc. to DIN 720**X-life**

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
Internal design	Standard	
Quality level	XL	X-life
Number of rows	1	Single-row design

Main Dimensions & Performance Data

d	80 mm	Bore diameter
B	33 mm	Width, inner ring
C_r	244.000 N	Basic dynamic load rating, radial
C_{0r}	265.000 N	Basic static load rating, radial
C_{ur}	41.500 N	Fatigue load limit, radial
n_G	6.100 1/min	Limiting speed
n_{gr}	2.950 1/min	Thermal speed rating
m	1,49 kg	Weight



Mounting dimensions

$d_{a \max}$	90 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	90 mm	Minimum diameter of shaft shoulder
$C_{Ra \min}$	7,3 mm	Minimum axial space
$C_{Rb \max}$	0,2 mm	Maximum axial space
$r_{a \max}$	2,5 mm	Maximum fillet radius of shaft

Dimensions

$r_{1,2 \min}$	2,5 mm	Minimum chamfer dimension of inner ring back face
a	29 mm	Distance between the apexes of the pressure cones
d_1	107,7 mm	Guidance rib diameter of inner ring
E_w	137,206 mm	Outer envelope circle
α	15,642 °	Contact angle

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	1,43	Dynamic axial load factor
Y_0	0,79	Static axial load factor

Additional information

T3EC080

Comparative designation to ISO 10317 and ISO 355



Characteristics

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