

FAG

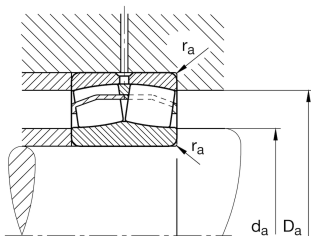
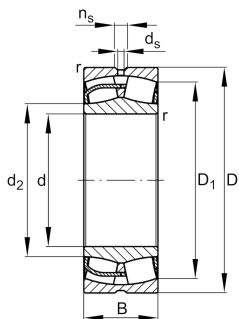
X-life

24036-BE-XL-C5 [🔗](#)

Spherical Roller Bearing

Spherical roller bearing 240...-BE-XL,
symmetric with rib washer

Technical information



Your current product variant

Design	BE	With lose center lip ring
Bore type	Z	Cylindrical
Cage	JPB	Sheet metal cage
Radial internal clearance	C5 (Group 5)	Internal clearance larger than C4
Relubrication feature	Standard	

Main Dimensions & Performance Data

d	180 mm	Bore diameter
D	280 mm	Outside diameter
B	100 mm	Width
C _r	1.130.000 N	Basic dynamic load rating, radial
C _{0r}	1.770.000 N	Basic static load rating, radial
C _{ur}	185.000 N	Fatigue load limit, radial
n _G	2.200 1/min	Limiting speed
n _{gr}	1.420 1/min	Reference speed
≈m	22,54 kg	Weight



Mounting dimensions

$d_{a \min}$	190,2 mm	Minimum diameter shaft shoulder
$D_{a \max}$	269,8 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2,1 mm	Maximum recess radius

Dimensions

$r_{\min}$	2,1 mm	Minimum chamfer dimension
D_1	244,6 mm	Bore diameter outer ring
d_2	201,7 mm	Raceway diameter of the inner ring
d_s	4,8 mm	Diameter lubrication hole
n_s	9,5 mm	Width of lubricating groove

Temperature range

$T_{\min}$	-30 °C	Operating temperature min.
$T_{\max}$	200 °C	Operating temperature max.

Calculation factors

e	0,32	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	2,1	Dynamic axial load factor
Y_2	3,13	Dynamic axial load factor
Y_0	2,06	Static axial load factor



Characteristics



Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Oil Lubrication



Not sealed



Static angular error and misalignment



Dynamic angular error and misalignment