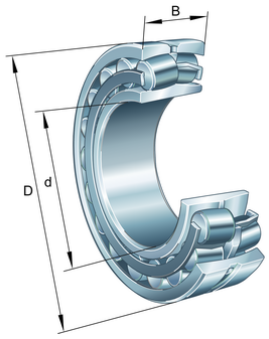
View product details on medias

02.07.2026, 13:02:56 UTC

SCHAEFFLER



FAG

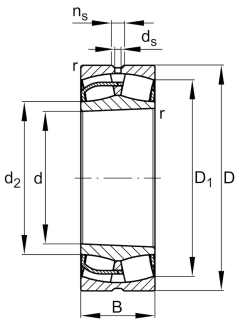
X-life

22338-BE-XL-K

Spherical Roller Bearing

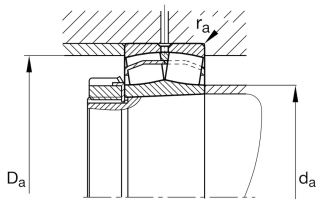
Spherical roller bearings 223..-E1-K, main dimensions to DIN 635-2, with tapered bore, taper 1:12

Technical information



Your current product variant

Design	BE	With lose center lip ring
Bore type	K	Tapered, taper 1:12
Cage	JPB	Sheet metal cage
Radial internal clearance	CN (Group N)	Normal internal clearance
Relubrication facility	Standard	



Main Dimensions & Performance Data

d	190 mm	Bore diameter
D	400 mm	Outside diameter
B	132 mm	Width
C_r	2.220.000 N	Basic dynamic load rating, radial
C_{0r}	2.650.000 N	Basic static load rating, radial
C_{ur}	213.000 N	Fatigue load limit, radial
n_G	1.940 1/min	Limiting speed
$n_{\vartheta r}$	1.160 1/min	Reference speed
≈m	76,135 kg	Weight

Mounting dimensions

$d_{a\ min}$	210 mm	Minimum diameter shaft shoulder
$d_{a\ max}$	228 mm	Maximum diameter of shaft shoulder
$D_{a\ max}$	380 mm	Maximum diameter of housing shoulder
$r_{a\ max}$	4 mm	Maximum recess radius
$d_{b\ min}$	206 mm	Minimum cavity diameter of the sleeve
$B_{a\ min}$	9 mm	Minimum cavity width of the sleeve

Dimensions

r_{min}	5 mm	Minimum chamfer dimension
D_1	338,1 mm	Bore diameter outer ring
d_2	236,8 mm	Raceway diameter of the inner ring
d_s	12,5 mm	Diameter lubrication hole
n_s	23,5 mm	Width of lubricating groove

Temperature range

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

Calculation factors

e	0,34	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y_1	1,96	Dynamic axial load factor
Y_2	2,92	Dynamic axial load factor
Y_0	1,92	Static axial load factor

Additional information

	H2338	Adapter sleeve
	AH2338G	Withdrawal sleeve

Characteristics

Radial load

Axial load in one direction

Axial load in two directions


Grease Lubrication


Oil Lubrication


Not sealed


Large bearing


Static angular error and misalignment


Dynamic angular error and misalignment