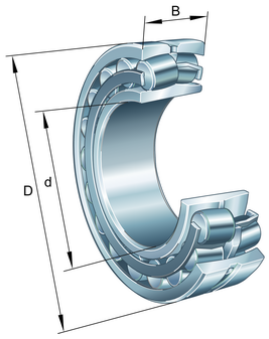


FAG

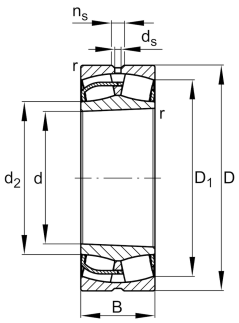
23052-BE-XL-K-C4

Spherical Roller Bearing

Spherical roller bearings 230..-E1-K, main dimensions to DIN 635-2, with tapered bore, taper 1:12

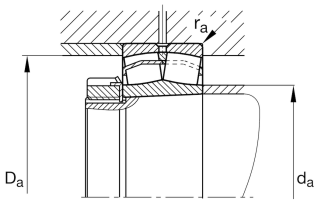
X-life

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	C4 (Group 4)	Internal clearance larger than C3
Relubrication facility	Standard	



Main Dimensions & Performance Data

d	260 mm	Bore diameter
D	400 mm	Outside diameter
B	104 mm	Width
C_r	1.670.000 N	Basic dynamic load rating, radial
C_{0r}	2.600.000 N	Basic static load rating, radial
C_{ur}	239.000 N	Fatigue load limit, radial
n_G	1.850 1/min	Limiting speed
$n_{\vartheta r}$	1.170 1/min	Reference speed
≈m	45,17 kg	Weight

Mounting dimensions

$d_{a\ min}$	274,6 mm	Minimum diameter shaft shoulder
$d_{a\ max}$	291 mm	Maximum diameter of shaft shoulder
$D_{a\ max}$	385,4 mm	Maximum diameter of housing shoulder
$r_{a\ max}$	3 mm	Maximum recess radius
$d_{b\ min}$	272 mm	Minimum cavity diameter of the sleeve
$B_{a\ min}$	13 mm	Minimum cavity width of the sleeve

Dimensions

r_{min}	4 mm	Minimum chamfer dimension
D_1	358,7 mm	Bore diameter outer ring
d_2	295,5 mm	Raceway diameter of the inner ring
d_s	9,5 mm	Diameter lubrication hole
n_s	17,7 mm	Width of lubricating groove

Temperature range

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

Calculation factors

e	0,23	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y_1	2,9	Dynamic axial load factor
Y_2	4,31	Dynamic axial load factor
Y_0	2,83	Static axial load factor

Additional information

	H3052X	Adapter sleeve
	AH3052	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