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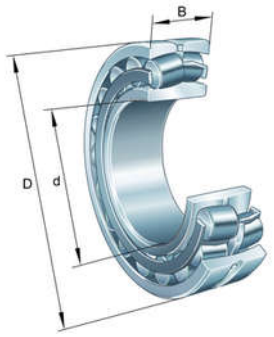
SCHAEFFLER



FAG

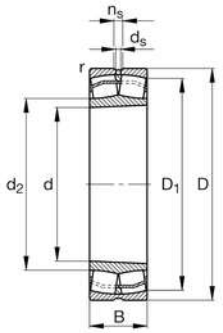
X-life

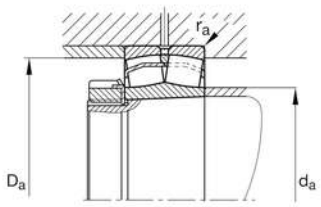
22319-E1-XL-K

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	E1	without central rip
Bore type	K	Tapered, taper 1:12
Cage	JPA	Sheet metal cage
Radial internal clearance	CN (Group N)	Normal internal clearance
Relubrication feature	Standard	

Main Dimensions & Performance Data

d	95 mm	Bore diameter
D	200 mm	Outside diameter
B	67 mm	Width
C_r	670,000 N	Basic dynamic load rating, radial
C_{0r}	700,000 N	Basic static load rating, radial
C_{ur}	61,000 N	Fatigue load limit, radial
n_G	3,700 1/min	Limiting speed
$n_{\vartheta r}$	2,800 1/min	Reference speed
≈m	9.677 kg	Weight

The datasheet is only an overview of dimensions and basic load ratings of the selected product. Please always observe all further information and guidelines for this product.For further information you can use the contact form on our website

Mounting dimensions

$d_{a\ min}$	109 mm	Minimum diameter shaft shoulder
$d_{a\ max}$	115 mm	Maximum diameter of shaft shoulder
$D_{a\ max}$	186 mm	Maximum diameter of housing shoulder
$r_{a\ max}$	2.5 mm	Maximum recess radius
$d_{b\ min}$	105 mm	Minimum cavity diameter of the sleeve
$B_{a\ min}$	7 mm	Minimum cavity width of the sleeve

Dimensions

r_{min}	3 mm	Minimum chamfer dimension
D_1	171.2 mm	Bore diameter outer ring
d_2	116 mm	Raceway diameter of the inner ring
d_s	6.3 mm	Diameter lubrication hole
n_s	12.2 mm	Width of lubricating groove

Temperature range

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

Calculation factors

e	0.33	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y_1	2.03	Dynamic axial load factor
Y_2	3.02	Dynamic axial load factor
Y_0	1.98	Static axial load factor

Additional information

	H2319	Adapter sleeve
	AHX2319	Withdrawal sleeve

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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

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