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SCHAEFFLER



FAG

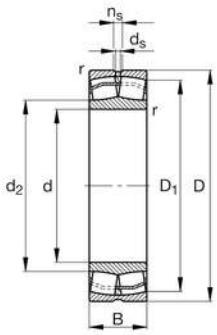
22219-E1-XL-C3

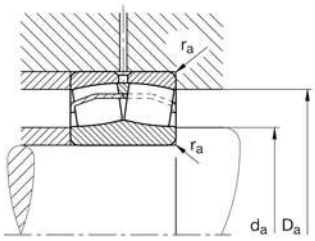
Spherical Roller Bearing

Spherical roller bearings 222..-E1, main dimensions to DIN 635-2

X-life

Technical information





Your current product variant

Design	E1	without central rip
Bore type	Z	Cylindrical
Cage	JPA	Sheet metal cage
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
Relubrication feature	Standard	

Main Dimensions & Performance Data

d	95 mm	Bore diameter
D	170 mm	Outside diameter
B	43 mm	Width
C_r	380,000 N	Basic dynamic load rating, radial
C_{0r}	415,000 N	Basic static load rating, radial
C_{ur}	48,500 N	Fatigue load limit, radial
n_G	4,850 1/min	Limiting speed
$n_{\vartheta r}$	3,300 1/min	Reference speed
≈m	4.056 kg	Weight

Mounting dimensions

$d_{a\ min}$	107 mm	Minimum diameter shaft shoulder
$D_{a\ max}$	158 mm	Maximum diameter of housing shoulder
$r_{a\ max}$	2.1 mm	Maximum recess radius

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

Dimensions

r_{min}	2.1 mm	Minimum chamfer dimension
D_1	152.7 mm	Bore diameter outer ring
d_2	112.6 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	0.24	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y_1	2.87	Dynamic axial load factor
Y_2	4.27	Dynamic axial load factor
Y_0	2.8	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

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