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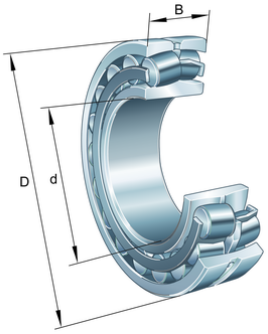
30.06.2026, 13:00:51 UTC

SCHAEFFLER



FAG

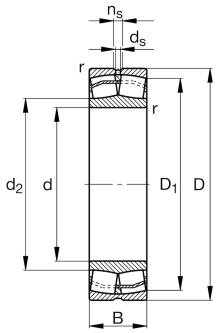
X-life

22324-E1-XL-H40-C3

Spherical Roller Bearing

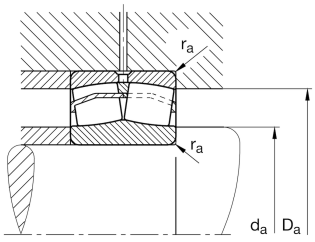
Spherical roller bearing 223..-E1-XL-H40,
symmetric with cage guidance ring

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 facility	H40	Without lubricating groove and holes



Main Dimensions & Performance Data

d	120 mm	Bore diameter
D	260 mm	Outside diameter
B	86 mm	Width
C_r	1.080.000 N	Basic dynamic load rating, radial
C_{0r}	1.170.000 N	Basic static load rating, radial
C_{ur}	105.000 N	Fatigue load limit, radial
n_G	2.850 1/min	Limiting speed
$n_{\vartheta r}$	2.000 1/min	Reference speed
≈m	22,258 kg	Weight

Mounting dimensions

$d_{a\ min}$	134 mm	Minimum diameter shaft shoulder
$D_{a\ max}$	246 mm	Maximum diameter of housing shoulder
$r_{a\ max}$	2,5 mm	Maximum recess radius

Dimensions

r_{min}	3 mm	Minimum chamfer dimension
D_1	222,4 mm	Bore diameter outer ring
d_2	150,8 mm	Raceway diameter of the inner ring

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	2,06	Dynamic axial load factor
Y_2	3,06	Dynamic axial load factor
Y_0	2,01	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