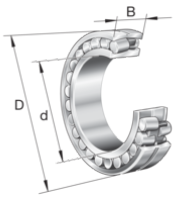
View product details on medias

12.06.2026, 06:12:19 UTC

SCHAEFFLER



FAG

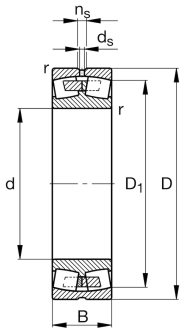
23230-E1A-XL-M-H40-C3

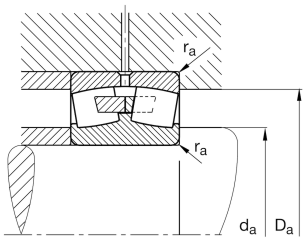
Spherical Roller Bearing

Spherical roller bearing 232..-E1A-XL-M-H40,
symmetric 2 outer ribs

X-life

Technical information





Your current product variant

Design	E1A	Without central rip
Bore type	Z	Cylindrical
Cage	M	Brass 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	150 mm	Bore diameter
D	270 mm	Outside diameter
B	96 mm	Width
C_r	1.280.000 N	Basic dynamic load rating, radial
C_{0r}	1.660.000 N	Basic static load rating, radial
C_{ur}	133.000 N	Fatigue load limit, radial
n_G	2.400 1/min	Limiting speed
$n_{\vartheta r}$	1.400 1/min	Reference speed
≈m	23,7 kg	Weight

Mounting dimensions

$d_{a\ min}$	164 mm	Minimum diameter shaft shoulder
$D_{a\ max}$	256 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	232,6 mm	Bore diameter outer 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	2,02	Dynamic axial load factor
Y_2	3	Dynamic axial load factor
Y_0	1,97	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