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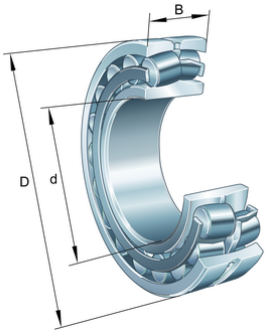
26.12.2024, 06:20:39 UTC

SCHAEFFLER



FAG

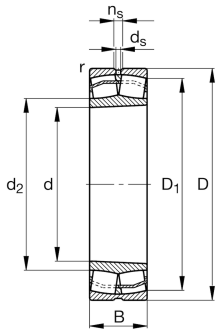
22320-E1-XL-K

Spherical Roller Bearing

Spherical roller bearings 223..-E1-K, main dimensions to DIN 635-2, with tapered bore, taper 1:12

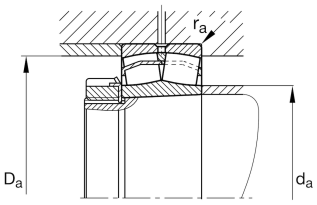
X-life

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	100 mm	Bore diameter
D	215 mm	Outside diameter
B	73 mm	Width
C_r	810,000 N	Basic dynamic load rating, radial
C_{0r}	920,000 N	Basic static load rating, radial
C_{ur}	77,000 N	Fatigue load limit, radial
n_G	3,300 1/min	Limiting speed
$n_{\vartheta r}$	2,380 1/min	Reference speed
≈m	12.855 kg	Weight

Mounting dimensions

$d_{a\ min}$	114 mm	Minimum diameter shaft shoulder
$d_{a\ max}$	129 mm	Maximum diameter of shaft shoulder
$D_{a\ max}$	201 mm	Maximum diameter of housing shoulder
$r_{a\ max}$	2.5 mm	Maximum recess radius
$d_{b\ min}$	110 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	184.7 mm	Bore diameter outer ring
d_2	130.2 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

	H2320	Adapter sleeve
	AHX2320	Withdrawal sleeve

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