FAG

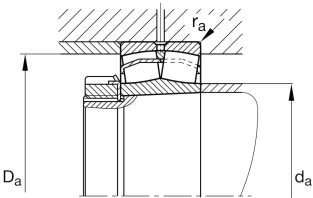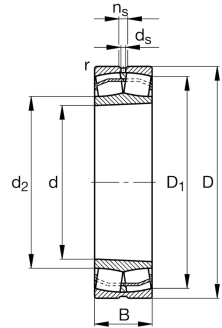## 22317-E1-XL-K-C3 ↗
Spherical Roller Bearing

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	C3 (Group 3)	Internal clearance larger than CN
Relubrication feature	Standard	

Main Dimensions & Performance Data

d	85 mm	Bore diameter
D	180 mm	Outside diameter
B	60 mm	Width
C_r	540,000 N	Basic dynamic load rating, radial
C_{0r}	560,000 N	Basic static load rating, radial
C_{ur}	51,000 N	Fatigue load limit, radial
n_G	4,100 1/min	Limiting speed
$n_{\vartheta r}$	3,200 1/min	Reference speed
$\approx m$	7.115 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

$d_{a\ min}$	99 mm	Minimum diameter shaft shoulder
$d_{a\ max}$	104 mm	Maximum diameter of shaft shoulder
$D_{a\ max}$	166 mm	Maximum diameter of housing shoulder
$r_{a\ max}$	2.5 mm	Maximum recess radius
$d_{b\ min}$	94 mm	Minimum cavity diameter of the sleeve
$B_{a\ min}$	6 mm	Minimum cavity width of the sleeve

Dimensions

r_{min}	3 mm	Minimum chamfer dimension
D_1	154.2 mm	Bore diameter outer ring
d_2	104.4 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	0.33	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y_1	2.04	Dynamic axial load factor
Y_2	3.04	Dynamic axial load factor
Y_0	2	Static axial load factor

Additional information

	H2317	Adapter sleeve
	AHX2317	Withdrawal sleeve

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Characteristics

F_r Radial load

F_a Axial load in one direction

F_a Axial load in two directions

Grease Lubrication

Oil Lubrication

Not sealed

Static angular error and misalignment

Dynamic angular error and misalignment