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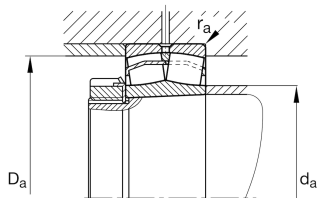
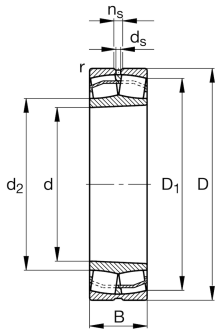
X-life

22316-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

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	80 mm	Bore diameter
D	170 mm	Outside diameter
B	58 mm	Width
C _r	495,000 N	Basic dynamic load rating, radial
C _{0r}	510,000 N	Basic static load rating, radial
C _{ur}	46,500 N	Fatigue load limit, radial
n _G	4,250 1/min	Limiting speed
n _{gr}	3,400 1/min	Reference speed
≈m	6.131 kg	Weight



Mounting dimensions

d _{a min}	92 mm	Minimum diameter shaft shoulder
d _{a max}	98 mm	Maximum diameter of shaft shoulder
D _{a max}	158 mm	Maximum diameter of housing shoulder
r _{a max}	2.1 mm	Maximum recess radius
d _{b min}	88 mm	Minimum cavity diameter of the sleeve
B _{a min}	5 mm	Minimum cavity width of the sleeve

Dimensions

r _{min}	2.1 mm	Minimum chamfer dimension
D ₁	145.1 mm	Bore diameter outer ring
d ₂	98.3 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	0.34	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y ₁	1.99	Dynamic axial load factor
Y ₂	2.96	Dynamic axial load factor
Y ₀	1.94	Static axial load factor

Additional information

H2316	Adapter sleeve
AHX2316	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