

FAG

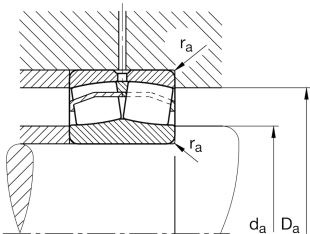
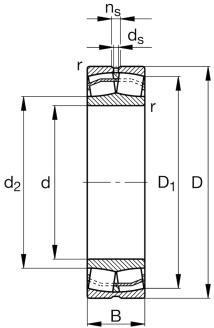
X-life

22311-E1-XL-T41A [🔗](#)

Spherical Roller Bearing

Spherical roller bearing 223...E1-XL-T41A,
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	C4 (Group 4)	Internal clearance larger than C3
Relubrication feature	Standard	
Spherical roller bearing for vibrating screens	T41A	for vibrating screens

Main Dimensions & Performance Data

d	55 mm	Bore diameter
D	120 mm	Outside diameter
B	43 mm	Width
C _r	265,000 N	Basic dynamic load rating, radial
C _{0r}	260,000 N	Basic static load rating, radial
C _{ur}	24,600 N	Fatigue load limit, radial
n _G	5,800 1/min	Limiting speed
n _{gr}	4,500 1/min	Reference speed
≈m	2.23 kg	Weight



Mounting dimensions

d _{a min}	66 mm	Minimum diameter shaft shoulder
D _{a max}	109 mm	Maximum diameter of housing shoulder
r _{a max}	2 mm	Maximum recess radius

Dimensions

r _{min}	2 mm	Minimum chamfer dimension
D ₁	101.4 mm	Bore diameter outer ring
d ₂	68.9 mm	Raceway diameter of the inner ring
d _s	3.2 mm	Diameter lubrication hole
n _s	6.5 mm	Width of lubricating groove

Temperature range

T _{min}	-30 °C	Operating temperature min.
T _{max}	200 °C	Operating temperature max.

Calculation factors

e	0.36	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y ₁	1.89	Dynamic axial load factor
Y ₂	2.81	Dynamic axial load factor
Y ₀	1.84	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