

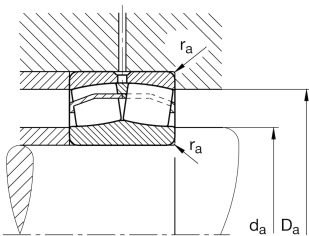
**FAG****22316-E1-XL-C3**

Spherical Roller Bearing

Spherical roller bearings 223...-E1, main dimensions to DIN 635-2

X-life

Technical information



Your current product variant

Design	E1	Without central rip
Bore type	Z	Cylindrical
Cage	JPA	Sheet metal cage
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
Relubrication	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	6,381 kg	Weight

Mounting dimensions

d _{a min}	92 mm	Minimum diameter shaft shoulder
D _{a max}	158 mm	Maximum diameter of housing shoulder
r _{a max}	2,1 mm	Maximum recess radius



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 F_a/F_r 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

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