



FAG

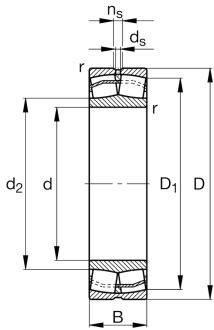
**21319-E1-XL**

Spherical Roller Bearing

Spherical roller bearings 213...-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
Relubrication facility	Standard	

## Main Dimensions &amp; Performance Data

d	95 mm	Bore diameter
D	200 mm	Outside diameter
B	45 mm	Width
$C_r$	425.000 N	Basic dynamic load rating, radial
$C_{0r}$	450.000 N	Basic static load rating, radial
$C_{ur}$	47.500 N	Fatigue load limit, radial
$n_G$	4.600 1/min	Limiting speed
$n_{gr}$	2.350 1/min	Reference speed
$m$	7,149 kg	Weight

## Mounting dimensions

$d_{a \min}$	109 mm	Minimum diameter shaft shoulder
$D_{a \max}$	186 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2,1 mm	Maximum recess radius



## Dimensions

$r_{\min}$	2,1 mm	Minimum chamfer dimension
$D_1$	169,4 mm	Bore diameter outer ring
$d_2$	124,3 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

$e$	0,24	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	2,84	Dynamic axial load factor
$Y_2$	4,23	Dynamic axial load factor
$Y_0$	2,78	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