



FAG

## ★ 22311-E1-XL

Spherical roller bearing

Schaeffler ID:  
0167052200000Spherical roller bearings 223...-E1, main  
dimensions to DIN 635-2

★ Preferred product

X-life

## Technical information



## Temperature range

$T_{\min}$	-30 °C	Operating temperature min.
$T_{\max}$	200 °C	Operating temperature max.
	2,354 kg	Weight

## Main Dimensions &amp; 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

## 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

## 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

**Additional information**

e	0,36	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y <sub>1</sub>	1,89	Dynamic axial load factor
Y <sub>2</sub>	2,81	Dynamic axial load factor
Y <sub>0</sub>	1,84	Static axial load factor