

FAG

## ★ 22209-E1-XL-K

Spherical roller bearing

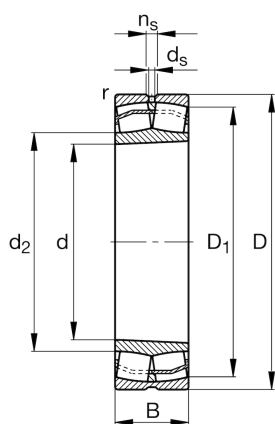
Schaeffler ID:  
0167034560000

★ Preferred product

X-life

Spherical roller bearings 222...-E1-K, main dimensions to DIN 635-2, with tapered bore, taper 1:12

## Technical information



## Main Dimensions &amp; Performance Data

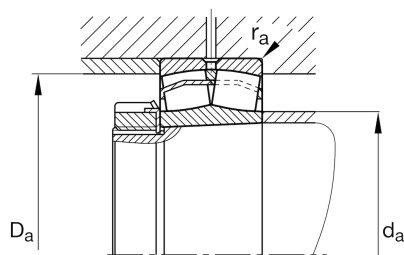
d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	23 mm	Width
$C_r$	104.000 N	Basic dynamic load rating, radial
$C_{0r}$	99.000 N	Basic static load rating, radial
$C_{ur}$	13.000 N	Fatigue load limit, radial
$n_G$	10.100 1/min	Limiting speed
$n_{gr}$	5.600 1/min	Reference speed
	0,56 kg	Weight

## Additional information

$r_{min}$	1,1 mm	Minimum chamfer dimension
	H309	Adapter sleeve
$D_1$	75,6 mm	Bore diameter outer ring
	AH309	Withdrawal sleeve
$d_2$	55 mm	Raceway diameter of the inner ring
$d_s$	3,2 mm	Diameter lubrication hole
$n_s$	4,8 mm	Width of lubricating groove

## Mounting dimensions

$d_{a min}$	52 mm	Minimum diameter shaft shoulder
$d_{a max}$	54 mm	Maximum diameter of shaft shoulder
$D_{a max}$	78 mm	Maximum diameter of housing shoulder
$r_{a max}$	1 mm	Maximum recess radius
$d_{b min}$	50 mm	Minimum cavity diameter of the sleeve
$B_{a min}$	8 mm	Minimum cavity width of the sleeve



**Calculation factors**

e	0,25	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y <sub>1</sub>	2,74	Dynamic axial load factor
Y <sub>2</sub>	4,08	Dynamic axial load factor
Y <sub>0</sub>	2,68	Static axial load factor

**Temperature range**

T <sub>min</sub>	-30 °C	Operating temperature min.
T <sub>max</sub>	200 °C	Operating temperature max.