

FAG

**22205-E1-XL-K**

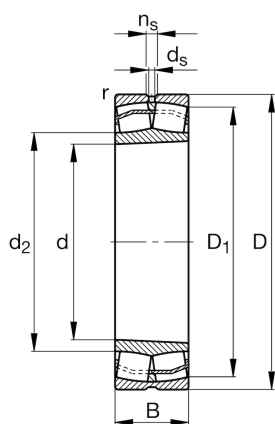
Spherical roller bearing

Schaeffler ID:  
0190003160000

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

X-life

## Technical information



## Main Dimensions &amp; Performance Data

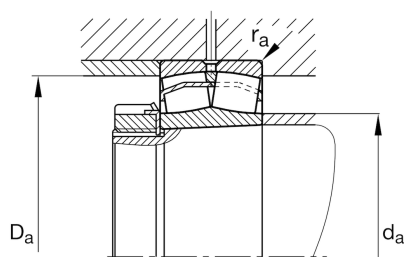
d	25 mm	Bore diameter
D	52 mm	Outside diameter
B	18 mm	Width
$C_r$	48,500 N	Basic dynamic load rating, radial
$C_{0r}$	42,500 N	Basic static load rating, radial
$C_{ur}$	4,900 N	Fatigue load limit, radial
$n_G$	14,400 1/min	Limiting speed
$n_{gr}$	9,200 1/min	Reference speed
	0.168 kg	Weight

## Dimensions

$r_{min}$	1 mm	Minimum chamfer dimension
$D_1$	44.4 mm	Bore diameter outer ring
$d_2$	31.5 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

$d_{a min}$	30.6 mm	Minimum diameter shaft shoulder
$d_{a max}$	31 mm	Maximum diameter of shaft shoulder
$D_{a max}$	46.4 mm	Maximum diameter of housing shoulder
$r_{a max}$	1 mm	Maximum recess radius
$d_{b min}$	28 mm	Minimum cavity diameter of the sleeve
$B_{a min}$	5 mm	Minimum cavity width of the sleeve



**Additional information**

e	0.33	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
	H305	Adapter sleeve
Y <sub>1</sub>	2.07	Dynamic axial load factor
Y <sub>2</sub>	3.09	Dynamic axial load factor
Y <sub>0</sub>	2.03	Static axial load factor

**Temperature range**

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