

FAG

22211-E1-XL-K

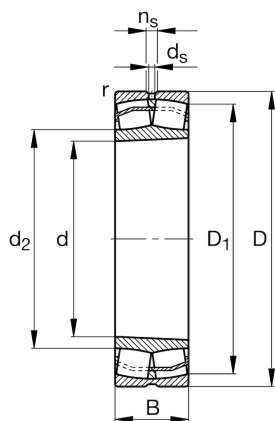
Spherical roller bearing

Schaeffler ID:
0167036340000

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

X-life

Technical information

**Main Dimensions & Performance Data**

d	55 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
C_r	129.000 N	Basic dynamic load rating, radial
C_{0r}	130.000 N	Basic static load rating, radial
C_{ur}	17.700 N	Fatigue load limit, radial
n_G	9.000 1/min	Limiting speed
n_{gr}	4.650 1/min	Reference speed
	0,805 kg	Weight

Mounting dimensions

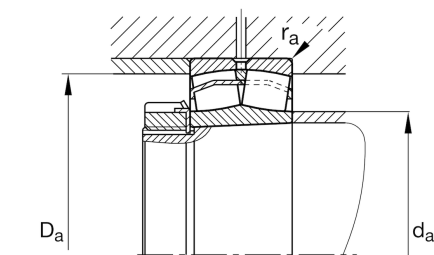
$d_{a \min}$	64 mm	Minimum diameter shaft shoulder
$d_{a \max}$	67 mm	Maximum diameter of shaft shoulder
$D_{a \max}$	91 mm	Maximum diameter of housing shoulder
$r_{a \max}$	1,5 mm	Maximum recess radius
$d_{b \min}$	60 mm	Minimum cavity diameter of the sleeve
$B_{a \min}$	10 mm	Minimum cavity width of the sleeve

Dimensions

r_{\min}	1,5 mm	Minimum chamfer dimension
D_1	89,8 mm	Bore diameter outer ring
d_2	67,6 mm	Raceway diameter of the inner ring
d_s	3,2 mm	Diameter lubrication hole
n_s	4,8 mm	Width of lubricating groove

Temperature range

T_{\min}	-30 °C	Operating temperature min.
T_{\max}	200 °C	Operating temperature max.



Calculation factors

e	0,21	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y ₁	3,17	Dynamic axial load factor
Y ₂	4,72	Dynamic axial load factor
Y ₀	3,1	Static axial load factor

Additional information

H311	Adapter sleeve
AHX311	Withdrawal sleeve