

FAG

22205-E1-XL-K

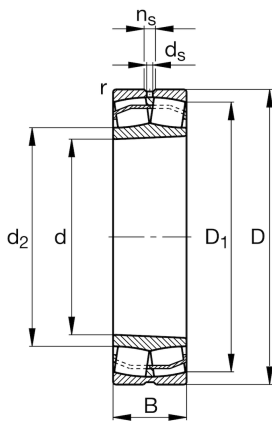
Spherical roller bearing

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 & 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

Mounting dimensions

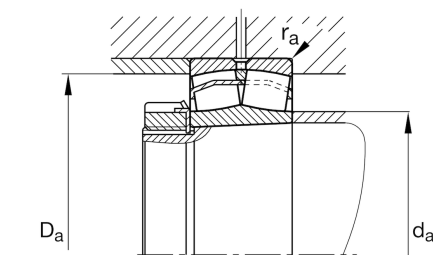
$d_{a\ min}$	[30,6] mm	Minimum diameter shaft shoulder
$d_{a\ max}$	[31] mm	Maximum diameter of shaft shoulder
$D_{a\ max}$	[46,4] mm	Maximum diameter of housing shoulder
$r_{a\ max}$	[1] mm	Maximum recess radius
$d_{b\ min}$	[28] mm	Minimum cavity diameter of the sleeve
$B_{a\ min}$	[5] mm	Minimum cavity width of the sleeve

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

Temperature range

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



Calculation factors

e	[0,33]	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y ₁	[2,07]	Dynamic axial load factor
Y ₂	[3,09]	Dynamic axial load factor
Y ₀	[2,03]	Static axial load factor

Additional information

	[H305]	Adapter sleeve
--	--------	----------------