

FAG

22210-E1-XL-K

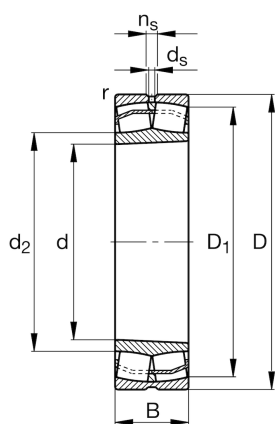
Spherical roller bearing

Schaeffler ID:
0167035450000

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

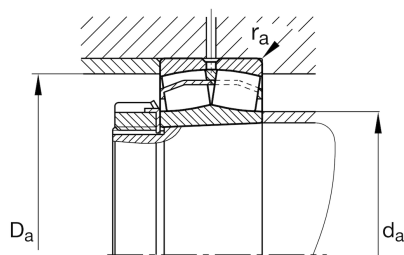
d	50 mm	Bore diameter
D	90 mm	Outside diameter
B	23 mm	Width
C _r	109.000 N	Basic dynamic load rating, radial
C _{0r}	107.000 N	Basic static load rating, radial
C _{ur}	14.600 N	Fatigue load limit, radial
n _G	9.800 1/min	Limiting speed
n _{gr}	5.100 1/min	Reference speed
	0,585 kg	Weight

Additional information

r _{min}	1,1 mm	Minimum chamfer dimension
	H310	Adapter sleeve
D ₁	80,8 mm	Bore diameter outer ring
	AHX310	Withdrawal sleeve
d ₂	59,9 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}	57 mm	Minimum diameter shaft shoulder
d _{a max}	59 mm	Maximum diameter of shaft shoulder
D _{a max}	83 mm	Maximum diameter of housing shoulder
r _{a max}	1 mm	Maximum recess radius
d _{b min}	55 mm	Minimum cavity diameter of the sleeve
B _{a min}	10 mm	Minimum cavity width of the sleeve



Calculation factors

e	0,23	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y ₁	2,95	Dynamic axial load factor
Y ₂	4,4	Dynamic axial load factor
Y ₀	2,89	Static axial load factor

Temperature range

T _{min}	-30 °C	Operating temperature min.
T _{max}	200 °C	Operating temperature max.