

FAG

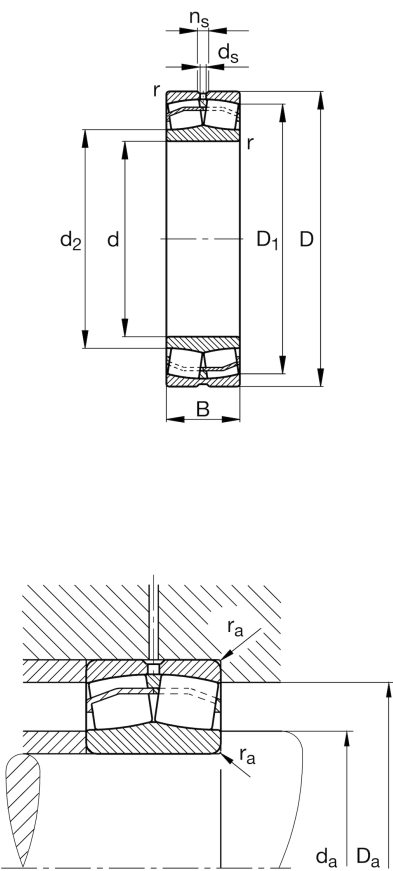
22217-E1-XL
Spherical Roller Bearing

Schaeffler ID:
0190004050000

Spherical roller bearings 222...-E1, main dimensions to DIN 635-2

X-life

Technical information



Main Dimensions & Performance Data

d	85 mm	Bore diameter
D	150 mm	Outside diameter
B	36 mm	Width
C _r	305,000 N	Basic dynamic load rating, radial
C _{0r}	325,000 N	Basic static load rating, radial
C _{ur}	39,000 N	Fatigue load limit, radial
n _G	5,700 1/min	Limiting speed
n _{gr}	3,450 1/min	Reference speed
≈m	2.616 kg	Weight

Mounting dimensions

d _{a min}	96 mm	Minimum diameter shaft shoulder
D _{a max}	139 mm	Maximum diameter of housing shoulder
r _{a max}	2 mm	Maximum recess radius

Dimensions

r _{min}	2 mm	Minimum chamfer dimension
D ₁	135.4 mm	Bore diameter outer ring
d ₂	99.7 mm	Raceway diameter of the inner ring
d _s	3.2 mm	Diameter lubrication hole
n _s	6.5 mm	Width of lubricating groove

Temperature range

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

Calculation factors		
e	0.22	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y ₁	3.04	Dynamic axial load factor
Y ₂	4.53	Dynamic axial load factor
Y ₀	2.97	Static axial load factor