

FAG

22217-E1-XL-K

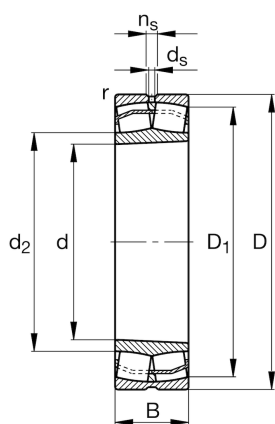
Spherical roller bearing

Schaeffler ID:
0167040290000

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	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
	2.56 kg	Weight

Mounting dimensions

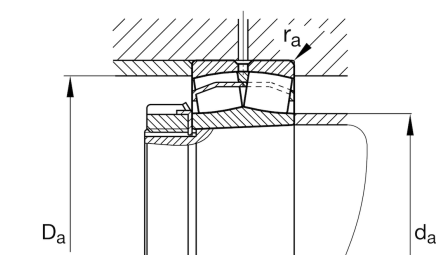
$d_{a \min}$	96 mm	Minimum diameter shaft shoulder
$d_{a \max}$	99 mm	Maximum diameter of shaft shoulder
$D_{a \max}$	139 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2 mm	Maximum recess radius
$d_{b \min}$	91 mm	Minimum cavity diameter of the sleeve
$B_{a \min}$	12 mm	Minimum cavity width of the sleeve

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

Additional information

H317	Adapter sleeve
AHX317	Withdrawal sleeve