

FAG

X-life

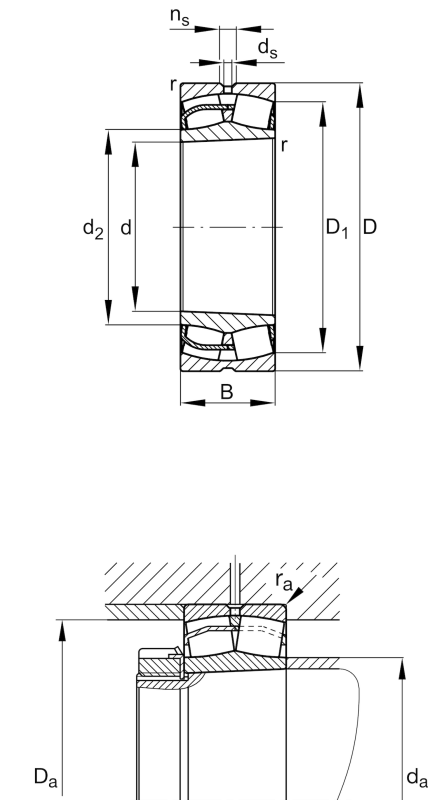
24160-BE-XL-K30-C3

Spherical roller bearing

Schaeffler ID:
0669161940030

Spherical roller bearings 241...-BE-K30, main dimensions to DIN 635-2, with tapered bore, taper 1:30

Technical information



Main Dimensions & Performance Data

d	300 mm	Bore diameter
D	500 mm	Outside diameter
B	200 mm	Width
C _r	3.950.000 N	Basic dynamic load rating, radial
C _{0r}	6.400.000 N	Basic static load rating, radial
C _{ur}	500.000 N	Fatigue load limit, radial
n _G	1.100 1/min	Limiting speed
n _{gr}	450 1/min	Reference speed
	153,2 kg	Weight

Mounting dimensions

d _{a min}	320 mm	Minimum diameter shaft shoulder
D _{a max}	480 mm	Maximum diameter of housing shoulder
r _{a max}	4 mm	Maximum recess radius

Dimensions

r _{min}	5 mm	Minimum chamfer dimension
D ₁	422,8 mm	Bore diameter outer ring
d ₂	338,2 mm	Raceway diameter of the inner ring
d _s	8 mm	Diameter lubrication hole
n _s	15 mm	Width of lubricating groove

Temperature range

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

Calculation factors		
e	0,39	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y ₁	1,72	Dynamic axial load factor
Y ₂	2,56	Dynamic axial load factor
Y ₀	1,68	Static axial load factor
Additional information		
AH24160		Withdrawal sleeve