



FAG

22318-E1A-XL-K-M-C3

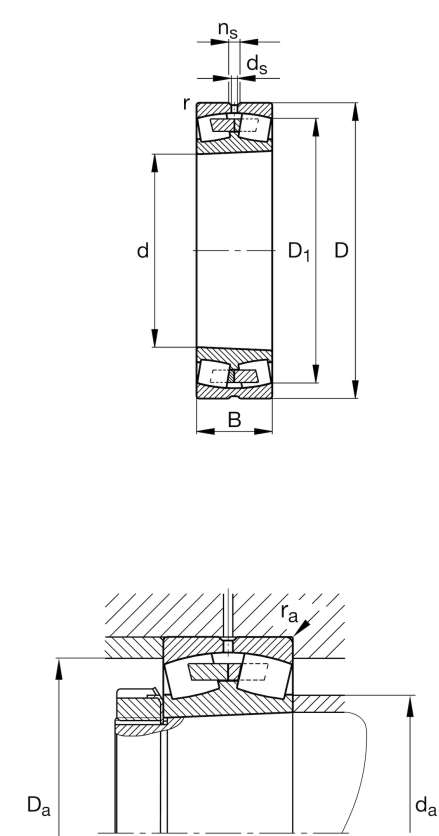
Spherical Roller Bearing

Schaeffler ID:
0190209450030

Spherical roller bearing 223...-E1A-XL-K-M,
symmetric 2 outer ribs

X-life

Technical information



Main Dimensions & Performance Data

d	3,543 in	Bore diameter
D	7,48 in	Outside diameter
B	2,52 in	Width
C _r	137.140,288 lbf	Basic dynamic load rating, radial
C _{0r}	141.636,691 lbf	Basic static load rating, radial
C _{ur}	12.589,928 lbf	Fatigue load limit, radial
n _G	3.850 1/min	Limiting speed
n _{gr}	3.000 1/min	Reference speed
	18,362 lbs	Weight

Mounting dimensions

d _{a min}	4,094 in	Minimum diameter shaft shoulder
D _{a max}	6,929 in	Maximum diameter of housing shoulder
r _{a max}	0,098 in	Maximum recess radius
d _{a max}	4,331 in	Maximum diameter of shaft shoulder
d _{b min}	3,937 in	Minimum cavity diameter of the sleeve
B _{a min}	0,236 in	Minimum cavity width of the sleeve

Dimensions

r _{min}	0,118 in	Minimum chamfer dimension
D ₁	6,398 in	Bore diameter outer ring
d ₂	4,339 in	Raceway diameter of the inner ring
d _s	0,248 in	Diameter lubrication hole
n _s	0,48 in	Width of lubricating groove

Temperature range

T _{min}	-22 °F	Operating temperature min.
T _{max}	392 °F	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	2,03	Dynamic axial load factor
Y ₂	3,02	Dynamic axial load factor
Y ₀	1,98	Static axial load factor
Additional information		
	H2318	Adapter sleeve
	AHX2318	Withdrawal sleeve