

FAG

24072-BEA-XL-K30-MB1-C5

Spherical Roller Bearing

Schaeffler ID:
0733614370050

Spherical roller bearings 240..-BEA-K30, main dimensions to DIN 635-2, with tapered bore, taper 1:30

X-life

Technical information

Main Dimensions & Performance Data

d	360 mm	Bore diameter
D	540 mm	Outside diameter
B	180 mm	Width
C _r	3,650,000 N	Basic dynamic load rating, radial
C _{0r}	6,600,000 N	Basic static load rating, radial
C _{ur}	570,000 N	Fatigue load limit, radial
n _G	1,040 1/min	Limiting speed
n _{gr}	570 1/min	Reference speed
≈m	143.2 kg	Weight

Mounting dimensions

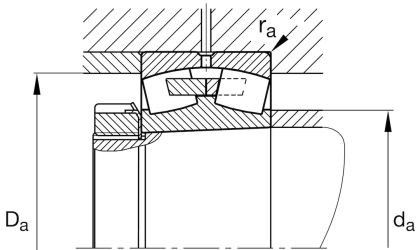
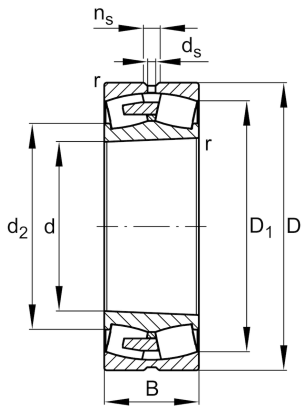
d _{a min}	378 mm	Minimum diameter shaft shoulder
D _{a max}	522 mm	Maximum diameter of housing shoulder
r _{a max}	4 mm	Maximum recess radius

Dimensions

r _{min}	5 mm	Minimum chamfer dimension
D ₁	476.4 mm	Bore diameter outer ring
d _s	9.5 mm	Diameter lubrication hole
n _s	17.7 mm	Width of lubricating groove

Temperature range

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



Calculation factors		
e	0.3	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y ₁	2.23	Dynamic axial load factor
Y ₂	3.32	Dynamic axial load factor
Y ₀	2.18	Static axial load factor
Additional information		
AH24072-H		Withdrawal sleeve