



FAG

24072-BEA-XL-K30-MB1-C3

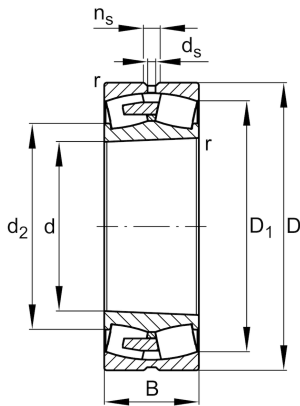
Spherical Roller Bearing

Schaeffler ID:
0733614370030

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
$\approx m$	142 kg	Weight

Mounting dimensions

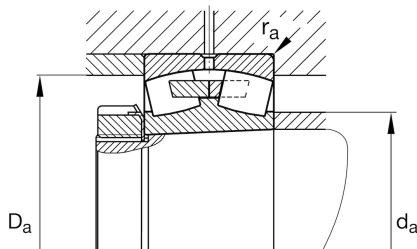
$d_{a \min}$	378 mm	Minimum diameter shaft shoulder
$D_{a \max}$	522 mm	Maximum diameter of housing shoulder
$r_{a \max}$	4 mm	Maximum recess radius

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
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