

FAG

23024-E1A-XL-K-M-C2

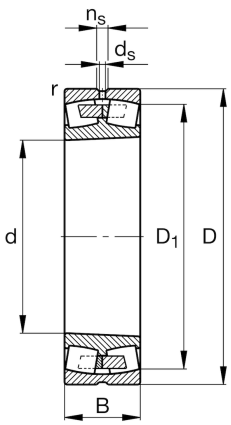
Spherical Roller Bearing

Schaeffler ID:
0167063580020

Spherical roller bearings 230..-E1A-K, main dimensions to DIN 635-2, with tapered bore, taper 1:12

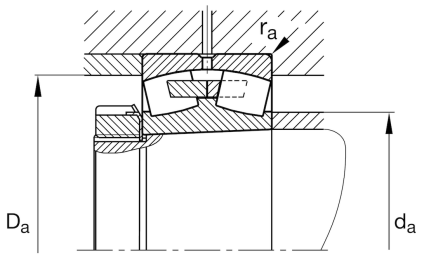
X-life

Technical information



Main Dimensions & Performance Data

d	4,724 in	Bore diameter
D	7,087 in	Outside diameter
B	1,811 in	Width
C_r	96.672,662 lbf	Basic dynamic load rating, radial
C_{0r}	130.395,683 lbf	Basic static load rating, radial
C_{ur}	13.489,209 lbf	Fatigue load limit, radial
n_G	3.950 1/min	Limiting speed
$n_{\vartheta r}$	2.800 1/min	Reference speed
	8,375 lbs	${Weight}



Mounting dimensions

$d_{a\ min}$	5,071 in	Minimum diameter shaft shoulder
$D_{a\ max}$	6,74 in	Maximum diameter of housing shoulder
$r_{a\ max}$	0,079 in	Maximum recess radius
$d_{a\ max}$	5,236 in	Maximum diameter of shaft shoulder
$d_{b\ min}$	5 in	Minimum cavity diameter of the sleeve
$B_{a\ min}$	0,276 in	Minimum cavity width of the sleeve

Dimensions

r_{min}	0,079 in	Minimum chamfer dimension
D_1	6,484 in	Bore diameter outer ring
d_s	0,126 in	Diameter lubrication hole
n_s	0,256 in	Width of lubricating groove

Temperature range

T_{min}	-22 °F	Operating temperature min.
T_{max}	392 °F	Operating temperature max.

The datasheet is only an overview of dimensions and basic load ratings of the selected product. Please always observe all further information and guidelines for this product. For further information you can use the contact form on our website.

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

	H3024	Adapter sleeve
	AHX3024	Withdrawal sleeve

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