

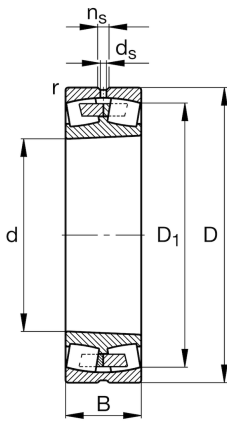
**FAG****23120-E1A-XL-K-M-C3**

Spherical Roller Bearing

Spherical roller bearings 231...-E1A-K, main dimensions to DIN 635-2, with tapered bore, taper 1:12

X-life

Technical information

**Main Dimensions & Performance Data**

d	100 mm	Bore diameter
D	165 mm	Outside diameter
B	52 mm	Width
C_r	450.000 N	Basic dynamic load rating, radial
C_{0r}	570.000 N	Basic static load rating, radial
C_{ur}	54.000 N	Fatigue load limit, radial
n_G	4.000 1/min	Limiting speed
n_{gr}	2.750 1/min	Reference speed
$\approx m$	4,38 kg	Weight

Mounting dimensions

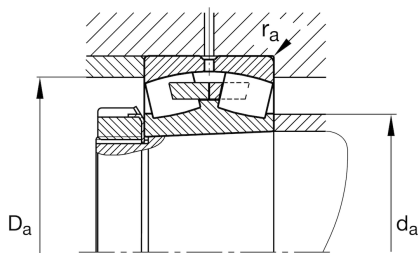
$d_{a \min}$	111 mm	Minimum diameter shaft shoulder
$D_{a \max}$	154 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2 mm	Maximum recess radius
$d_{a \max}$	115 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	107 mm	Minimum cavity diameter of the sleeve
$B_{a \min}$	7 mm	Minimum cavity width of the sleeve

Dimensions

r_{\min}	2 mm	Minimum chamfer dimension
D_1	146,3 mm	Bore diameter outer ring
d_s	3,2 mm	Diameter lubrication hole
n_s	6,5 mm	Width of lubricating groove

Temperature range

T_{\min}	-30 °C	Operating temperature min.
T_{\max}	200 °C	Operating temperature max.





View product details on medias

10.10.2024, 18:09:35 EEST

SCHAEFFLER

Calculation factors

e	0,28	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y ₁	2,37	Dynamic axial load factor
Y ₂	3,53	Dynamic axial load factor
Y ₀	2,32	Static axial load factor

Additional information

H3120	Adapter sleeve
AHX3120	Withdrawal sleeve