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26.12.2024, 06:36:43 UTC

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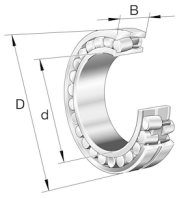


FAG

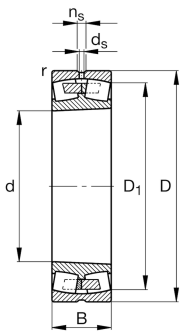
23138-E1A-XL-K-M-C3

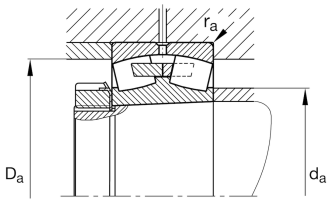
Spherical Roller Bearing

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

X-life

Technical information





Your current product variant

Design	E1A	without central rip
Bore type	K	Tapered, taper 1:12
Cage	M	Brass Cage
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
Relubrication feature	Standard	
Special material	Standard	

Main Dimensions & Performance Data

d	190 mm	Bore diameter
D	320 mm	Outside diameter
B	104 mm	Width
C_r	1,610,000 N	Basic dynamic load rating, radial
C_{0r}	2,220,000 N	Basic static load rating, radial
C_{ur}	222,000 N	Fatigue load limit, radial
n_G	2,070 1/min	Limiting speed
$n_{\vartheta r}$	1,260 1/min	Reference speed
≈m	32.723 kg	Weight

Mounting dimensions

$d_{a\ min}$	204 mm	Minimum diameter shaft shoulder
$D_{a\ max}$	306 mm	Maximum diameter of housing shoulder
$r_{a\ max}$	2.5 mm	Maximum recess radius
$d_{a\ max}$	216 mm	Maximum diameter of shaft shoulder
$d_{b\ min}$	202 mm	Minimum cavity diameter of the sleeve
$B_{a\ min}$	9 mm	Minimum cavity width of the sleeve

Dimensions

r_{min}	3 mm	Minimum chamfer dimension
D_1	281.6 mm	Bore diameter outer ring
d_s	8 mm	Diameter lubrication hole
n_s	15 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	2.28	Dynamic axial load factor
Y_2	3.39	Dynamic axial load factor
Y_0	2.23	Static axial load factor

Additional information

	H3138	Adapter sleeve
	AH3138G	Withdrawal sleeve

Characteristics

Radial load

Axial load in one direction

Axial load in two directions


Grease Lubrication


Oil Lubrication


Not sealed


Large bearing


Static angular error and misalignment


Dynamic angular error and misalignment