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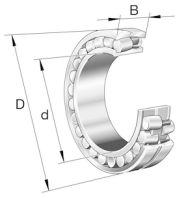


FAG

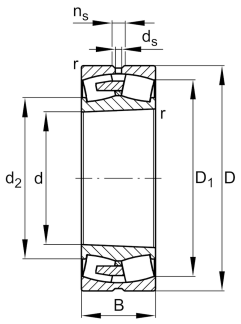
231/560-BEA-XL-K-MB1

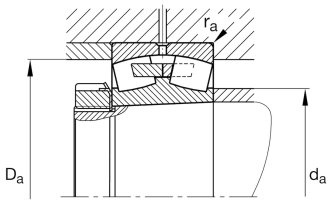
Spherical Roller Bearing

Spherical roller bearing 231..-BEA-XL-K-MB1,
symmetric 2 outer ribs with rib washer

X-life

Technical information





Your current product variant

Design	BEA	With lose center lip ring
Bore type	K	Tapered, taper 1:12
Cage	MB1	Solid brass cage
Radial internal clearance	CN (Group N)	Normal internal clearance
Relubrication facility	Standard	

Main Dimensions & Performance Data

d	560 mm	Bore diameter
D	920 mm	Outside diameter
B	280 mm	Width
C_r	9.700.000 N	Basic dynamic load rating, radial
C_{0r}	16.400.000 N	Basic static load rating, radial
C_{ur}	1.060.000 N	Fatigue load limit, radial
n_G	630 1/min	Limiting speed
$n_{\vartheta r}$	300 1/min	Reference speed
≈m	716 kg	Weight

Mounting dimensions

$d_{a\ min}$	592 mm	Minimum diameter shaft shoulder
$D_{a\ max}$	888 mm	Maximum diameter of housing shoulder
$r_{a\ max}$	6 mm	Maximum recess radius
$d_{a\ max}$	644 mm	Maximum diameter of shaft shoulder
$d_{b\ min}$	589 mm	Minimum cavity diameter of the sleeve
$B_{a\ min}$	18 mm	Minimum cavity width of the sleeve

Dimensions

r_{min}	7,5 mm	Minimum chamfer dimension
D_1	806,6 mm	Bore diameter outer ring
d_s	12,5 mm	Diameter lubrication hole
n_s	23,5 mm	Width of lubricating groove

Temperature range

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

Calculation factors

e	0,29	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y_1	2,32	Dynamic axial load factor
Y_2	3,45	Dynamic axial load factor
Y_0	2,26	Static axial load factor

Additional information

	H31/560-HG	Adapter sleeve
	AH31/560A-H	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