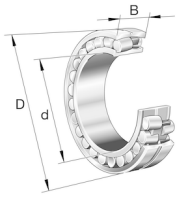


FAG

23084-BEA-XL-K-MB1-R50-130

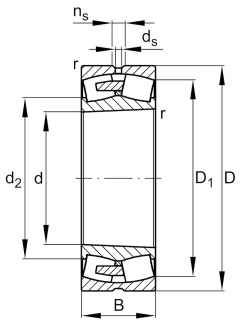
Spherical Roller Bearing

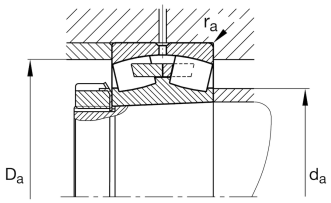
Spherical roller bearing 230..-BEA-XL-K-MB1, symmetric 2 outer ribs with rib washer

Schaeffler ID: 0797459204001

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
Relubrication feature	Standard	

Main Dimensions & Performance Data

d	420 mm	Bore diameter
D	620 mm	Outside diameter
B	150 mm	Width
C_r	3.650.000 N	Basic dynamic load rating, radial
C_{0r}	6.300.000 N	Basic static load rating, radial
C_{ur}	520.000 N	Fatigue load limit, radial
n_G	1.090 1/min	Limiting speed
$n_{\vartheta r}$	650 1/min	Reference speed
≈m	148,5 kg	Weight

Mounting dimensions

$d_{a\ min}$	438 mm	Minimum diameter shaft shoulder
$D_{a\ max}$	602 mm	Maximum diameter of housing shoulder
$r_{a\ max}$	4 mm	Maximum recess radius
$d_{a\ max}$	468 mm	Maximum diameter of shaft shoulder
$d_{b\ min}$	437 mm	Minimum cavity diameter of the sleeve
$B_{a\ min}$	16 mm	Minimum cavity width of the sleeve

Dimensions

r_{min}	5 mm	Minimum chamfer dimension
D_1	560,7 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	0,21	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y_1	3,17	Dynamic axial load factor
Y_2	4,72	Dynamic axial load factor
Y_0	3,1	Static axial load factor

Additional information

	H3084X-HG	Adapter sleeve
	AH3084G-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