



FAG



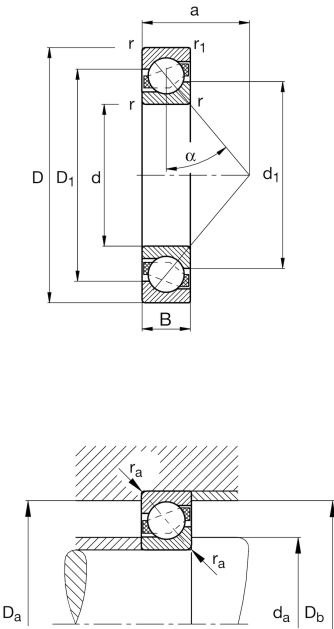
X-life

7315-B-XL-JP-UA

Angular contact ball bearing

Angular contact ball bearing 73..-B-XL-JP, single row, X-life, steel sheet metal cage

Technical information



Your current product variant

Design variant	B	B
Sealing	Without	Not sealed
Cage	JP	steel sheet metal
Tolerance class	PN	Normal (PN)
Dimensional / heat stabilization	S0	Rings dimensional stabilized up to 150°
Bearing with matched conditions for fitting in pairs	UA	bearing set with small axial internal clearance
Lubricant	Without	Bearing not greased

Main Dimensions & Performance Data

d	75 mm	Bore diameter
D	160 mm	Outside diameter
B	37 mm	Width
C <sub>r</sub>	140,000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	107,000 N	Basic static load rating, radial
C <sub>ur</sub>	6,900 N	Fatigue load limit, radial
n <sub>G</sub>	5,600 1/min	Limiting speed
n <sub>gr</sub>	4,500 1/min	Reference speed
≈m	3.3 kg	Weight



Mounting dimensions

$d_{a\ min}$	87 mm	Minimum diameter of shaft shoulder
$D_{a\ max}$	148 mm	Maximum diameter of housing shoulder
$D_{b\ max}$	153 mm	Maximum diameter of housing shoulder
$r_{a\ max}$	2.1 mm	Maximum fillet radius of shaft
$r_{a1\ max}$	1 mm	Maximum fillet radius of housing

Dimensions

$r_{\ min}$	2.1 mm	Minimum chamfer dimension
$r_{1\ min}$	1.1 mm	Minimum chamfer dimension
$D_1$	127.98 mm	Shoulder diameter on outer ring wide side face
$d_1$	109.2 mm	Shoulder diameter on inner ring wide side face
$a$	67.8 mm	Distance between the apexes of the pressure cones
$\alpha$	40 °	Contact angle

Temperature range

$T_{\ min}$	-30 °C	Operating temperature min.
$T_{\ max}$	150 °C	Operating temperature max.


Additional information

$A_{\ min}$	50 µm	Axial clearance per set min.
Tol (+)	12 µm	Tolerance for axial clearance or preload per set


Characteristics



Radial load




Axial load in one direction



Grease Lubrication



Oil Lubrication



Not sealed