

**FAG****62301-A-2RSR**

Deep groove ball bearing

Deep groove ball bearing 623..-A-2RSR,  
single row, steel sheet metal cage

## Technical information

**Your current product variant**

Changed internal design	A	Design variant A
Sealing	2RSR	Contact seal on both sides
Cage	JN	Steel sheet metal
Tolerance class	PN	Normal (ISO 492:2023)
Dimensional / heat stabilization	SN	Rings dimensional stabilized up to 120°
Lubricant	Lubricating grease	
Radial internal clearance	CN (Group N)	Normal internal clearance
Bore type	Z	Cylindrical

**Main Dimensions & Performance Data**

d	12 mm	Bore diameter
D	37 mm	Outside diameter
B	17 mm	Width
C <sub>r</sub>	10,300 N	Basic dynamic load rating, radial
C <sub>0r</sub>	4,200 N	Basic static load rating, radial
C <sub>ur</sub>	330 N	Fatigue load limit, radial
n <sub>G</sub>	13,900 1/min	Limiting speed
≈m	0.085 kg	Weight



### Mounting dimensions

$d_{a \min}$	17.6 mm	Minimum diameter shaft shoulder
$D_{a \max}$	31.4 mm	Maximum diameter of housing shoulder
$r_{a \max}$	1 mm	Maximum fillet radius

### Dimensions

$r_{\min}$	1 mm	Minimum chamfer dimension
$D_1$	29.88 mm	Shoulder diameter outer ring
$D_2$	32.6 mm	Caliber diameter outer ring
$d_1$	19.25 mm	Shoulder diameter inner ring

### Temperature range

$T_{\min}$	-20 °C	Operating temperature min.
$T_{\max}$	100 °C	Operating temperature max.

### Calculation factors

$f_0$	11.1	Calculation factor
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### Characteristics

	Radial load
	Axial load in one direction
	Axial load in two directions
	Lifetime lubrication, freedom from maintenance
	Grease Lubrication
	Sealed on both sides