

**FAG****63003-A-2RSR**

Deep groove ball bearing

Deep groove ball bearing 630..-A-2RSR,
single row, seals, 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	17 mm	Bore diameter
D	35 mm	Outside diameter
B	14 mm	Width
C _r	6,200 N	Basic dynamic load rating, radial
C _{0r}	3,250 N	Basic static load rating, radial
C _{ur}	207 N	Fatigue load limit, radial
n _G	11,700 1/min	Limiting speed
≈m	54.7 g	Weight



Mounting dimensions

$d_{a \min}$	20.2 mm	Minimum diameter shaft shoulder
$D_{a \max}$	31.8 mm	Maximum diameter of housing shoulder
$r_{a \max}$	0.3 mm	Maximum fillet radius

Dimensions

r_{\min}	0.3 mm	Minimum chamfer dimension
D_1	29.47 mm	Shoulder diameter outer ring
D_2	31.49 mm	Caliber diameter outer ring
d_1	22.8 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	14.3	Calculation factor
-------	------	--------------------

Characteristics

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