

**FAG****6009-2RSR-C3**

Deep groove ball bearing

Deep groove ball bearing 60..-2RSR, single row, seals, steel sheet metal cage

Technical information

**Your current product variant**

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	GA13	Ball bearing and insert bearing grease
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
Bore type	Z	Cylindrical

Main Dimensions & Performance Data

d	45 mm	Bore diameter
D	75 mm	Outside diameter
B	16 mm	Width
C _r	21,200 N	Basic dynamic load rating, radial
C _{0r}	14,400 N	Basic static load rating, radial
C _{ur}	750 N	Fatigue load limit, radial
n _G	4,950 1/min	Limiting speed
m	0.24 kg	Weight

Mounting dimensions

d _{a min}	49.6 mm	Minimum diameter shaft shoulder
D _{a max}	70.4 mm	Maximum diameter of housing shoulder
r _{a max}	1 mm	Maximum fillet radius



Dimensions

r_{\min}	1 mm	Minimum chamfer dimension
D_1	65.6 mm	Shoulder diameter outer ring
D_2	67.98 mm	Caliber diameter outer ring
d_1	54.2 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	15.3	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