

**FAG****54209**

Axial deep groove ball bearing

Axial deep groove ball bearing 542, double direction, with spherical housing washer, steel sheet metal cage

Technical information



Your current product variant

Cage	JP	Steel sheet metal
Tolerance class	PN	Normal (ISO 492:2023)
Dimensional / heat stabilization	S0	Rings dimensional stabilized up to 150°

Main Dimensions & Performance Data

d	35 mm	Inner diameter shaft washer
D	73 mm	Outer diameter housing washer
T ₂	39,6 mm	Height
C _a	39.000 N	Basic dynamic load rating, axial
C _{0a}	80.000 N	Basic static load rating, axial
C _{ua}	3.650 N	Fatigue load limit, axial
n _G	5.500 1/min	Limiting speed
n _{gr}	6.500 1/min	Reference speed
≈m	0,574 kg	Weight

Mounting dimensions

d _{a max}	45 mm	Maximum diameter shaft shoulder
D _{a max}	60 mm	Maximum diameter of housing shoulder
r _{a max}	1 mm	Maximum filled radius
r _{a1 max}	0,6 mm	Maximum filled radius



Dimensions

D ₁	47 mm	Inner diameter housing washer
B	9 mm	Height shaft washer
r _{min}	1 mm	Minimum chamfer dimension
r _{1 min}	0,6 mm	Minimum chamfer dimension
R	56 mm	Radius spherical housing washer
A	23 mm	Distance of the center point
T ₃	45 mm	Height with seat washer
D ₂	60 mm	Bore diameter seat washer
D ₃	78 mm	Outside diameter seat washer
C	7,5 mm	Height seat washer

Temperature range

T _{min}	-30 °C	Operating temperature min.
T _{max}	150 °C	Operating temperature max.

Calculation factors

A	0,043	Minimum load factor
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Additional information

U209	Seat washer
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Characteristics

	Axial load in one direction
	Axial load in two directions
	Grease Lubrication
	Oil Lubrication
	Not sealed
	Static angular error and misalignment