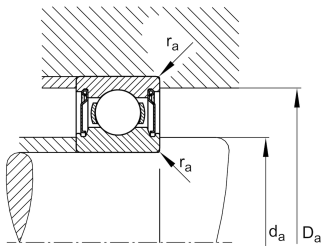
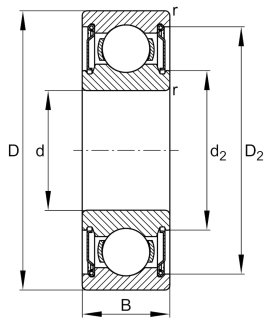


**FAG****6309-H-2Z-SN-C3>N**

Deep groove ball bearing

Deep groove ball bearing 63...-H-2Z, single row, H-Series, shields, steel sheet metal cage

Technical information



Your current product variant

Version code	>N	Not marked on bearing
Changed internal design	H	Design variant H (H-Series)
Type of Seal	2Z	Non-contact shield 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	C3 (Group 3)	Internal clearance larger than CN
Bore type	Z	Cylindrical

Main Dimensions & Performance Data

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
C _r	48.890 N	Basic dynamic load rating, radial
C _{0r}	29.560 N	Basic static load rating, radial
C _{ur}	1.730 N	Fatigue load limit, radial
n _G	8.100 1/min	Limiting speed
n _{gr}	8.100 1/min	Reference speed
≈m	0,798 kg	Weight



Mounting dimensions

$d_{a\ min}$	54 mm	Minimum diameter shaft shoulder
$D_{a\ max}$	91 mm	Maximum diameter of housing shoulder
$r_{a\ max}$	1,5 mm	Maximum fillet radius

Dimensions

$r_{\ min}$	1,5 mm	Minimum chamfer dimension
D_1	83,6 mm	Shoulder diameter outer ring
D_2	85,9 mm	Caliber diameter outer ring
d_1	61,7 mm	Shoulder diameter inner ring

Temperature range

$T_{\ min}$	-20 °C	Operating temperature min.
$T_{\ max}$	120 °C	Operating temperature max.

Calculation factors

f_0	13,3	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