

**FAG****4309-B-TVH**

Deep groove ball bearing

Deep groove ball bearing 43.-B-TVH, double row, plastic cage

Technical information



Your current product variant

Design variant	B	Bearing without filling slot
Tolerance class	PN	Normal (ISO 492:2023)
Cage	TVH	Solid cage made of glass-fiber reinforced polyamid PA66
Lubricant	Lubricating grease	
Dimensional / heat stabilization	S0	Rings dimensional stabilized up to 150°
Radial internal clearance	CN (Group N)	Normal internal clearance

Main Dimensions & Performance Data

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	36 mm	Width
C_r	75,000 N	Basic dynamic load rating, radial
C_{0r}	60,000 N	Basic static load rating, radial
C_{ur}	3,700 N	Fatigue load limit, radial
n_G	6,300 1/min	Limiting speed
n_{gr}	5,300 1/min	Reference speed
$\approx m$	1.244 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	86.84 mm	Shoulder diameter outer ring
d_1	66.7 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	13.9	Calculation factor
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Characteristics

-  Radial load
-  Axial load in one direction
-  Axial load in two directions
-  Grease Lubrication
-  Not sealed