View product details on medias

26.12.2024, 06:35:57 UTC

SCHAEFFLER



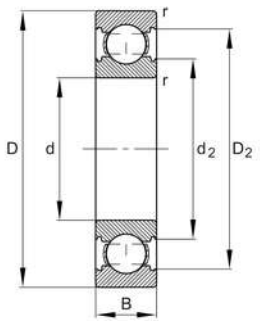
FAG

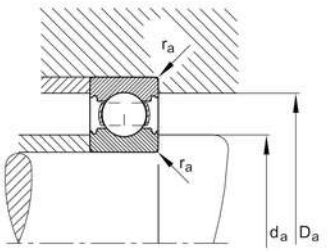
6409-C-C3

Deep groove ball bearing

Deep groove ball bearing 64..-C, single row,
Generation C, steel sheet metal cage

Technical information





Your current product variant

Changed internal design	C	GenerationC
Sealing	Without	Not sealed
Cage	JN	Steel sheet metal
Tolerance class	P6	Class6 (P6), better than PN
Dimensional / heat stabilization	S0	Rings dimensional stabilized up to 150°
Lubricant	Without	Bearing not greased
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	120 mm	Outside diameter
B	29 mm	Width
C_r	83,000 N	Basic dynamic load rating, radial
C_{0r}	47,500 N	Basic static load rating, radial
C_{ur}	3,300 N	Fatigue load limit, radial
n_G	8,500 1/min	Limiting speed
$n_{\vartheta r}$	7,100 1/min	Reference speed
≈m	1.48 kg	Weight

The datasheet is only an overview of dimensions and basic load ratings of the selected product. Please always observe all further information and guidelines for this product.For further information you can use the contact form on our website

Mounting dimensions

$d_{a\ min}$	58 mm	Minimum diameter shaft shoulder
$D_{a\ max}$	107 mm	Maximum diameter of housing shoulder
$r_{a\ max}$	2 mm	Maximum fillet radius

Dimensions

r_{min}	2 mm	Minimum chamfer dimension
D_1	102.15 mm	Shoulder diameter outer ring
D_2	105.3 mm	Caliber diameter outer ring
d_1	74.7 mm	Shoulder diameter inner ring
d_2	72.54 mm	Caliber diameter inner ring

Temperature range

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

Calculation factors

f_0	12.9	Calculation factor

Characteristics



Radial load



Axial load in one direction



Axial load in two directions


Grease Lubrication


Oil Lubrication


Not sealed

The datasheet is only an overview of dimensions and basic load ratings of the selected product. Please always observe all further information and guidelines for this product.For further information you can use the contact form on our website