



FAG

16005-A-C3

Deep groove ball bearing

Deep groove ball bearing 160..-A, single row, steel sheet metal cage

Technical information



Your current product variant

Changed internal design	A	Design variant A
Sealing	Without	Not sealed
Cage	JN	Steel sheet metal
Tolerance class	PN	Normal (ISO 492:2023)
Dimensional / heat stabilization	SN	Rings dimensional stabilized up to 120°
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	25 mm	Bore diameter
D	47 mm	Outside diameter
B	8 mm	Width
C _r	9.400 N	Basic dynamic load rating, radial
C _{0r}	5.600 N	Basic static load rating, radial
C _{ur}	325 N	Fatigue load limit, radial
n _G	22.200 1/min	Limiting speed
n _{gr}	11.600 1/min	Reference speed
m	0,052 kg	Weight



Mounting dimensions

$d_{a\min}$	27 mm	Minimum diameter shaft shoulder
$D_{a\max}$	45 mm	Maximum diameter of housing shoulder
$r_{a\max}$	0,3 mm	Maximum fillet radius

Dimensions

$r_{\min}$	0,3 mm	Minimum chamfer dimension
D_1	40,4 mm	Shoulder diameter outer ring
D_2	42,87 mm	Caliber diameter outer ring
d_1	32,5 mm	Shoulder diameter inner ring

Temperature range

$T_{\min}$	-30 °C	Operating temperature min.
$T_{\max}$	120 °C	Operating temperature max.

Calculation factors

f_0	15,1	Calculation factor
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Characteristics

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