



FAG

684>N

Deep groove ball bearing

Deep groove ball bearing 68..., single row,
steel sheet metal cage

Informacje techniczne



Twoja aktualna wersja produktu

Version code	>N	Not marked on bearing
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	CN (Group N)	Normal internal clearance
Bore type	Z	Cylindrical

Main Dimensions & Performance Data

d	4 mm	Bore diameter
D	9 mm	Outside diameter
B	2,5 mm	Width
C _r	680 N	Basic dynamic load rating, radial
C _{0r}	228 N	Basic static load rating, radial
C _{ur}	14,1 N	Fatigue load limit, radial
n _G	94.000 1/min	Limiting speed
n _{gr}	47.000 1/min	Reference speed
≈m	0,65 g	Masa



Mounting dimensions

$d_{a\ min}$	4,6 mm	Minimum diameter shaft shoulder
$D_{a\ max}$	8,4 mm	Maximum diameter of housing shoulder
$r_{a\ max}$	0,1 mm	Maximum fillet radius

Dimensions

$r_{\min}$	0,1 mm	Minimum chamfer dimension
D_1	7,7 mm	Shoulder diameter outer ring
d_1	5,3 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	12,9	Calculation factor
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Właściwości



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Obciążenie osiowe dwukierunkowe



Smarowanie smarem



Smarowanie olejem



Bez uszczelnienia