

**FAG****685>N**

Deep groove ball bearing

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

## Technical information



## Your current product variant

Version code	>N	Not marked on bearing
Sealing	Without	Not sealed
Cage	JN	Steel sheet metal
Tolerance class	PN	Normal (PN)
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 &amp; Performance Data

d	5 mm	Bore diameter
D	11 mm	Outside diameter
B	3 mm	Width
C <sub>r</sub>	760 N	Basic dynamic load rating, radial
C <sub>0r</sub>	280 N	Basic static load rating, radial
C <sub>ur</sub>	17,5 N	Fatigue load limit, radial
n <sub>G</sub>	84.000 1/min	Limiting speed
n <sub>gr</sub>	41.000 1/min	Reference speed
≈m	1,16 g	Weight



### Mounting dimensions

$d_{a \min}$	5,8 mm	Minimum diameter shaft shoulder
$D_{a \max}$	10,2 mm	Maximum diameter of housing shoulder
$r_{a \max}$	0,15 mm	Maximum fillet radius

### Dimensions

$r_{\min}$	0,15 mm	Minimum chamfer dimension
$D_1$	9,2 mm	Shoulder diameter outer ring
$d_1$	6,8 mm	Shoulder diameter inner ring

### Temperature range

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

### Calculation factors

$f_0$	13,9	Calculation factor
-------	------	--------------------

### Characteristics



Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Oil Lubrication



Not sealed