

**FAG****S686>N**

## Deep groove ball bearing

Deep groove ball bearing S68, corrosion-resistant materials, single row, steel sheet metal cage

## Technical information



## Your current product variant

Version code	>N	Not marked on bearing
Material Bearing	S	Stainless steel
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 &amp; Performance Data

d	6 mm	Bore diameter
D	13 mm	Outside diameter
B	3,5 mm	Width
C <sub>r</sub>	1.150 N	Basic dynamic load rating, radial
C <sub>0r</sub>	440 N	Basic static load rating, radial
C <sub>ur</sub>	27 N	Fatigue load limit, radial
n <sub>G</sub>	72.000 1/min	Limiting speed
n <sub>gr</sub>	30.500 1/min	Reference speed
m	1,87 g	Weight



### Mounting dimensions

$d_{a \min}$	6,8 mm	Minimum diameter shaft shoulder
$D_{a \max}$	12,2 mm	Maximum diameter of housing shoulder
$r_{a \max}$	0,15 mm	Maximum fillet radius

### Dimensions

$r_{\min}$	0,15 mm	Minimum chamfer dimension
$D_1$	11 mm	Shoulder diameter outer ring
$d_1$	8 mm	Shoulder diameter inner ring








### Temperature range

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

### Calculation factors

$f_0$	13,8	Calculation factor
-------	------	--------------------

### Characteristics

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