

**FAG****61816-C3**

Deep groove ball bearing

Deep groove ball bearing 618, single row,  
steel sheet metal cage

## Technical information



## Your current product variant

Sealing	Without	Not sealed
Cage	JN	Steel sheet metal
Tolerance class	PN	Normal (ISO 492:2023)
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 &amp; Performance Data

d	80 mm	Bore diameter
D	100 mm	Outside diameter
B	10 mm	Width
$C_r$	13.800 N	Basic dynamic load rating, radial
$C_{0r}$	13.800 N	Basic static load rating, radial
$C_{ur}$	930 N	Fatigue load limit, radial
$n_G$	9.400 1/min	Limiting speed
$n_{gr}$	4.600 1/min	Reference speed
$m$	0,157 kg	Weight



### Mounting dimensions

$d_{a \min}$	83,2 mm	Minimum diameter shaft shoulder
$D_{a \max}$	96,8 mm	Maximum diameter of housing shoulder
$r_{a \max}$	0,6 mm	Maximum fillet radius

### Dimensions

$r_{\min}$	0,6 mm	Minimum chamfer dimension
$D_1$	93,57 mm	Shoulder diameter outer ring
$d_1$	86,6 mm	Shoulder diameter inner ring

### Temperature range

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

### Calculation factors

$f_0$	16	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