

**FAG****16003-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	17 mm	Bore diameter
D	35 mm	Outside diameter
B	8 mm	Width
C <sub>r</sub>	6,400 N	Basic dynamic load rating, radial
C <sub>0r</sub>	3,250 N	Basic static load rating, radial
C <sub>ur</sub>	207 N	Fatigue load limit, radial
n <sub>G</sub>	31,000 1/min	Limiting speed
n <sub>gr</sub>	17,700 1/min	Reference speed
≈m	32 g	Weight



### Mounting dimensions

$d_{a \min}$	19 mm	Minimum diameter shaft shoulder
$D_{a \max}$	33 mm	Maximum diameter of housing shoulder
$r_{a \max}$	0.3 mm	Maximum fillet radius

### Dimensions

$r_{\min}$	0.3 mm	Minimum chamfer dimension
$D_1$	29.46 mm	Shoulder diameter outer ring
$D_2$	31.65 mm	Caliber diameter outer ring
$d_1$	22.8 mm	Shoulder diameter inner ring

### Temperature range

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

### Calculation factors

$f_0$	14.3	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