

**FAG****HC6304-C3**

## Deep groove ball bearing

Deep groove ball bearing HC63, Hybrid bearing, single row, steel sheet metal cage

## Technical information



## Your current product variant

Material Bearing	HC	Hybrid bearing, rolling elements ceramic, bearing rings made of steel
Type of Seal	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	C3 (Group 3)	Internal clearance larger than CN
Bore type	Z	Cylindrical

## Main Dimensions &amp; Performance Data

d	20 mm	Bore diameter
D	52 mm	Outside diameter
B	15 mm	Width
C <sub>r</sub>	19.700 N	Basic dynamic load rating, radial
C <sub>0r</sub>	10.000 N	Basic static load rating, radial
C <sub>ur</sub>	395 N	Fatigue load limit, radial
n <sub>G</sub>	23.800 1/min	Limiting speed
n <sub>gr</sub>	15.600 1/min	Reference speed
≈m	0,146 kg	Weight



### Mounting dimensions

$d_{a \min}$	27 mm	Minimum diameter shaft shoulder
$D_{a \max}$	45 mm	Maximum diameter of housing shoulder
$r_{a \max}$	1,1 mm	Maximum fillet radius

### Dimensions

$r_{\min}$	1,1 mm	Minimum chamfer dimension
$D_1$	41,95 mm	Shoulder diameter outer ring
$D_2$	44,4 mm	Caliber diameter outer ring
$d_1$	30,3 mm	Shoulder diameter inner ring

### Temperature range

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

### Calculation factors

$f_0$	15,7	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
	Current insulated