

**FAG****HC6317-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
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	85 mm	Bore diameter
D	180 mm	Outside diameter
B	41 mm	Width
$C_r$	167.000 N	Basic dynamic load rating, radial
$C_{0r}$	126.000 N	Basic static load rating, radial
$C_{ur}$	4.350 N	Fatigue load limit, radial
$n_G$	6.100 1/min	Limiting speed
$n_{gr}$	5.700 1/min	Reference speed
$\approx m$	3,61 kg	Weight



### Mounting dimensions

$d_{a \min}$	99 mm	Minimum diameter shaft shoulder
$D_{a \max}$	166 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2,5 mm	Maximum fillet radius

### Dimensions

$r_{\min}$	3 mm	Minimum chamfer dimension
$D_1$	151,58 mm	Shoulder diameter outer ring
$d_1$	114,36 mm	Shoulder diameter inner ring

### Temperature range

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

### Calculation factors

$f_0$	17,3	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
-  Current insulated