

**FAG****HC6324-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 (ISO 492:2023)
Dimensional / heat stabilization	S1	Rings dimensional stabilized up to 200°
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	120 mm	Bore diameter
D	260 mm	Outside diameter
B	55 mm	Width
C_r	260.000 N	Basic dynamic load rating, radial
C_{0r}	247.000 N	Basic static load rating, radial
C_{ur}	7.100 N	Fatigue load limit, radial
n_G	4.200 1/min	Limiting speed
n_{gr}	4.150 1/min	Reference speed
$\approx m$	11,4 kg	Weight



Mounting dimensions

$d_{a \min}$	134 mm	Minimum diameter shaft shoulder
$D_{a \max}$	246 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	215,6 mm	Shoulder diameter outer ring
d_1	165,8 mm	Shoulder diameter inner ring

Temperature range

T_{\min}	-30 °C	Operating temperature min.
T_{\max}	200 °C	Operating temperature max.

Calculation factors

f_0	17,4	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