

**FAG****HC6214-M-C4**

Deep groove ball bearing

Deep groove ball bearing HC62.-M, Hybrid bearing, single row, solid brass 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	M	Solid brass cage, rolling element guided
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	C4 (Group 4)	Internal clearance larger than C3
Bore type	Z	Cylindrical

Main Dimensions & Performance Data

d	70 mm	Bore diameter
D	125 mm	Outside diameter
B	24 mm	Width
C_r	66.000 N	Basic dynamic load rating, radial
C_{0r}	42.000 N	Basic static load rating, radial
C_{ur}	2.190 N	Fatigue load limit, radial
n_G	12.800 1/min	Limiting speed
n_{gr}	6.800 1/min	Reference speed
$\approx m$	1,232 kg	Weight



Mounting dimensions

$d_{a \min}$	79 mm	Minimum diameter shaft shoulder
$D_{a \max}$	116 mm	Maximum diameter of housing shoulder
$r_{a \max}$	1,5 mm	Maximum fillet radius

Dimensions

r_{\min}	1,5 mm	Minimum chamfer dimension
D_1	108,21 mm	Shoulder diameter outer ring
D_2	110,72 mm	Caliber diameter outer ring
d_1	86,75 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	13,8	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