

**FAG****2214-M-C3**

Self-aligning ball bearing

Self-aligning ball bearing 22...-M, solid brass cage

Technical information



Your current product variant

Bore type	Z	Cylindrical
Sealing	Without	Not sealed
Cage	M	Solid brass cage, ball guided
Tolerance class	PN	Normal (ISO 492:2023)
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
Lubricant	Without	Bearing not greased

Main Dimensions & Performance Data

d	70 mm	Bore diameter
D	125 mm	Outside diameter
B	31 mm	Width
C _r	44.000 N	Basic dynamic load rating, radial
C _{0r}	17.100 N	Basic static load rating, radial
C _{ur}	1.080 N	Fatigue load limit, radial
n _G	8.800 1/min	Limiting speed
n _{gr}	5.900 1/min	Reference speed
m	1,31 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	108,85 mm	Shoulder diameter outer ring
d_1	87,58 mm	Shoulder diameter inner ring

Temperature range

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

Calculation factors

e	0,27	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	2,33	Dynamic axial load factor
Y_2	3,61	Dynamic axial load factor
Y_0	2,45	Static axial load factor

Characteristics

-  Radial load
-  Axial load in one direction
-  Axial load in two directions
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed
-  Static angular error and misalignment
-  Dynamic angular error and misalignment