

**FAG****2222-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
Type of Sealing	Without	Not sealed
Cage	M	Solid brass cage, ball guided
Tolerance class	PN	Tolerance class PN, acc. to DIN 620
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
Lubricant	Without	Bearing not greased

## Main Dimensions &amp; Performance Data

d	110 mm	Bore diameter
D	200 mm	Outside diameter
B	53 mm	Width
$C_r$	126.000 N	Basic dynamic load rating, radial
$C_{0r}$	52.000 N	Basic static load rating, radial
$C_{ur}$	2.650 N	Fatigue load limit, radial
$n_G$	5.000 1/min	Limiting speed
$n_{gr}$	4.700 1/min	Reference speed
$\approx m$	7,1 kg	Weight

## Mounting dimensions

$d_{a \min}$	122 mm	Minimum diameter shaft shoulder
$D_{a \max}$	188 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2,1 mm	Maximum fillet radius



## Dimensions

$r_{\min}$	2,1 mm	Minimum chamfer dimension
$D_1$	174,1 mm	Shoulder diameter outer ring
$d_1$	136,9 mm	Shoulder diameter inner ring

## Temperature range

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

## Calculation factors

$e$	0,28	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	2,22	Dynamic axial load factor
$Y_2$	3,44	Dynamic axial load factor
$Y_0$	2,33	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