

**FAG****1222-M-C3**

Self-aligning ball bearing

Self-aligning ball bearing 12..-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 &amp; Performance Data

d	110 mm	Bore diameter
D	200 mm	Outside diameter
B	38 mm	Width
$C_r$	89.000 N	Basic dynamic load rating, radial
$C_{0r}$	38.500 N	Basic static load rating, radial
$C_{ur}$	1.960 N	Fatigue load limit, radial
$n_G$	5.300 1/min	Limiting speed
$n_{gr}$	4.200 1/min	Reference speed
$\approx m$	5,35 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
$D_1$	173,18 mm	Shoulder diameter outer ring
$d_1$	140,2 mm	Shoulder diameter inner ring

## Temperature range

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

## Calculation factors

$e$	0,17	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	3,63	Dynamic axial load factor
$Y_2$	5,62	Dynamic axial load factor
$Y_0$	3,8	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