

**FAG****1228-M**

Self-aligning ball bearing

Self-aligning ball bearing 12..-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	CN (Group N)	Normal internal clearance
Lubricant	Without	Bearing not greased

## Main Dimensions &amp; Performance Data

d	140 mm	Bore diameter
D	250 mm	Outside diameter
B	50 mm	Width
$C_r$	163.000 N	Basic dynamic load rating, radial
$C_{0r}$	74.000 N	Basic static load rating, radial
$C_{ur}$	3.350 N	Fatigue load limit, radial
$n_G$	3.900 1/min	Limiting speed
$n_{gr}$	3.650 1/min	Reference speed
$m$	11,1 kg	Weight

## Mounting dimensions

$d_{a \min}$	154 mm	Minimum diameter shaft shoulder
$D_{a \max}$	236 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2,5 mm	Maximum fillet radius



## Dimensions

$r_{\min}$	3 mm	Minimum chamfer dimension
$D_1$	220,5 mm	Shoulder diameter outer ring
$d_1$	175 mm	Shoulder diameter inner ring
$C_1$	2,7 mm	Overhang rolling element

## Temperature range

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

## Calculation factors

$e$	0,21	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	3,03	Dynamic axial load factor
$Y_2$	4,68	Dynamic axial load factor
$Y_0$	3,17	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