

**FAG****1315-K-M-C3**

Self-aligning ball bearing

Self-aligning ball bearing 13.-K-M, tapered bore taper 1:12, solid brass cage

## Technical information



## Your current product variant

Bore type	K	Tapered, taper 1:12
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	75 mm	Bore diameter
D	160 mm	Outside diameter
B	37 mm	Width
$C_r$	80.000 N	Basic dynamic load rating, radial
$C_{0r}$	30.000 N	Basic static load rating, radial
$C_{ur}$	1.740 N	Fatigue load limit, radial
$n_G$	6.700 1/min	Limiting speed
$n_{gr}$	4.750 1/min	Reference speed
$\approx m$	3,51 kg	Weight



### Mounting dimensions

$d_{a \min}$	87 mm	Minimum diameter shaft shoulder
$d_{a \max}$	100 mm	Maximum diameter shaft shoulder
$D_{a \max}$	148 mm	Maximum diameter of housing shoulder
$d_{b \min}$	80 mm	Minimum cavity diameter of the sleeve
$B_{a \min}$	6 mm	Minimum cavity width of the sleeve
$r_{a \max}$	2,1 mm	Maximum fillet radius

### Dimensions

$r_{\min}$	2,1 mm	Minimum chamfer dimension
$D_1$	134,8 mm	Shoulder diameter outer ring
$d_1$	104,8 mm	Shoulder diameter inner ring

### Temperature range

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

### Calculation factors

$e$	0,23	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	2,78	Dynamic axial load factor
$Y_2$	4,3	Dynamic axial load factor
$Y_0$	2,91	Static axial load factor

### Additional information

H315

Adapter sleeve



### Characteristics

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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