

**FAG****1316-K-M-C3**

Self-aligning ball bearing

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

Technical information

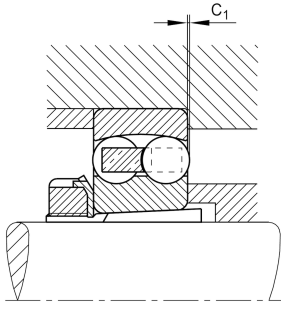


Your current product variant

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 & Performance Data

d	80 mm	Bore diameter
D	170 mm	Outside diameter
B	39 mm	Width
C_r	89.000 N	Basic dynamic load rating, radial
C_{0r}	33.000 N	Basic static load rating, radial
C_{ur}	1.870 N	Fatigue load limit, radial
n_G	6.200 1/min	Limiting speed
n_{gr}	4.500 1/min	Reference speed
$\approx m$	4,359 kg	Weight



Mounting dimensions

$d_{a \min}$	92 mm	Minimum diameter shaft shoulder
$d_{a \max}$	107 mm	Maximum diameter shaft shoulder
$D_{a \max}$	158 mm	Maximum diameter of housing shoulder
$d_{b \min}$	85 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	144,25 mm	Shoulder diameter outer ring
d_1	110,62 mm	Shoulder diameter inner ring
C_1	0,1 mm	Overhang rolling element

Temperature range

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

Calculation factors

e	0,22	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	2,88	Dynamic axial load factor
Y_2	4,46	Dynamic axial load factor
Y_0	3,02	Static axial load factor

Additional information

H316

Adapter sleeve



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