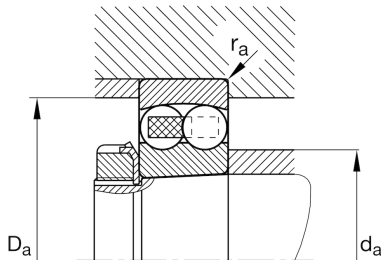
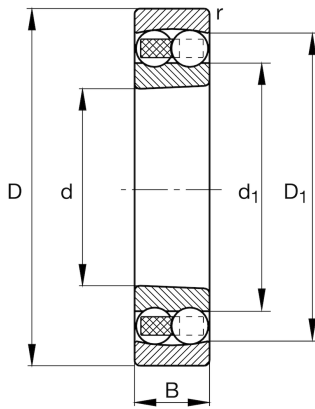


**FAG****★ 1220-K-M-C3**

Self-aligning ball bearing

Schaeffler ID:  
0389033930030Self-aligning ball bearing 12..-K-M, tapered  
bore taper 1:12, solid brass cage**★** Preferred product

## Technical information

**Temperature range**

$T_{\min}$	-30 °C	Operating temperature min.
$T_{\max}$	150 °C	Operating temperature max.
	3,833 kg	Weight

**Main Dimensions & Performance Data**

$d$	100 mm	Bore diameter
$D$	180 mm	Outside diameter
$B$	34 mm	Width
$r_{\min}$	2,1 mm	Minimum chamfer dimension
$C_r$	70.000 N	Basic dynamic load rating, radial
$C_{0r}$	29.500 N	Basic static load rating, radial
$C_{ur}$	1.590 N	Fatigue load limit, radial
$n_G$	6.000 1/min	Limiting speed
$n_{gr}$	4.500 1/min	Reference speed

**Dimensions**

$D_1$	155,2 mm	Shoulder diameter outer ring
$d_1$	127,3 mm	Shoulder diameter inner ring

**Mounting dimensions**

$d_{a \min}$	112 mm	Minimum diameter shaft shoulder
$d_{a \max}$	124 mm	Maximum diameter shaft shoulder
$D_{a \max}$	168 mm	Maximum diameter of housing shoulder
$d_{b \min}$	106 mm	Minimum cavity diameter of the sleeve
$B_{a \min}$	7 mm	Minimum cavity width of the sleeve
$r_{a \max}$	2,1 mm	Maximum fillet radius

**Calculation factors**

e	0,18	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
	H220	Adapter sleeve
Y <sub>1</sub>	3,58	Dynamic axial load factor
Y <sub>2</sub>	5,53	Dynamic axial load factor
Y <sub>0</sub>	3,75	Static axial load factor