



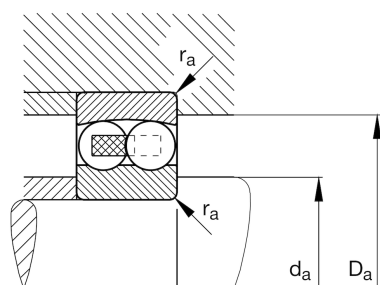
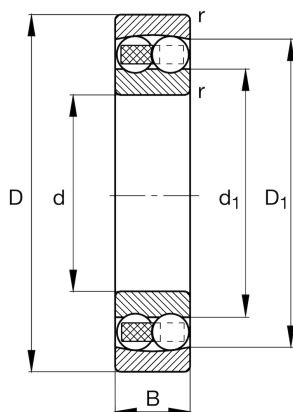
FAG

**2319-M**

Self-aligning ball bearing

Schaeffler ID:  
0190346520000Self-aligning ball bearing 23..-M, solid  
brass cage

## Technical information

**Main Dimensions & Performance Data**

d	95 mm	Bore diameter
D	200 mm	Outside diameter
B	67 mm	Width
$r_{\min}$	3 mm	Minimum chamfer dimension
$C_r$	167.000 N	Basic dynamic load rating, radial
$C_{0r}$	64.000 N	Basic static load rating, radial
$C_{ur}$	3.350 N	Fatigue load limit, radial
$n_G$	4.800 1/min	Limiting speed
$n_{gr}$	4.750 1/min	Reference speed
	9,86 kg	Weight

**Dimensions**

$D_1$	167,7 mm	Shoulder diameter outer ring
$d_1$	121,6 mm	Shoulder diameter inner ring

**Mounting dimensions**

$d_{a\min}$	109 mm	Minimum diameter shaft shoulder
$D_{a\max}$	186 mm	Maximum diameter of housing shoulder
$r_{a\max}$	2,5 mm	Maximum fillet radius

**Calculation factors**

e	0,38	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	1,66	Dynamic axial load factor
$Y_2$	2,57	Dynamic axial load factor
$Y_0$	1,74	Static axial load factor

**Temperature range**

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