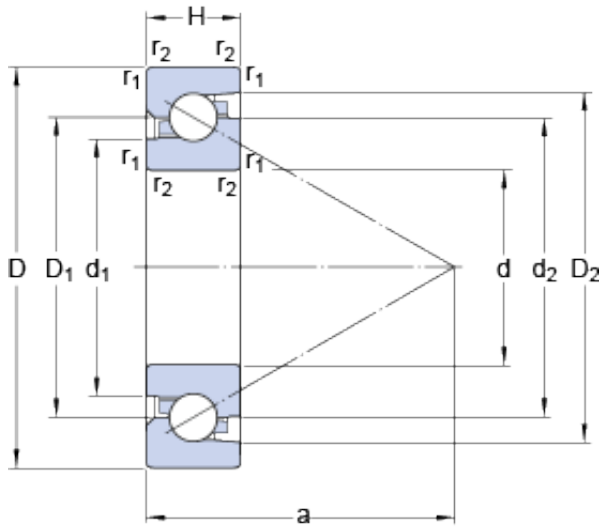




## Super-Precision Bearings Manufacturer



BSA 203 C Bearing 2D drawings and 3D CAD models

### SKF BSA 203 C super precision ball bearings

Bearing No. BSA 203 C

Size	17x40x12 mm
Bore Diameter	17 mm
Outer Diameter	40 mm
Width	12 mm
d	17 mm
D	40 mm
H	12 mm
d <sub>1</sub>	24.17 mm
d <sub>2</sub>	29 mm
D <sub>1</sub>	29.1 mm
D <sub>2</sub>	34.38 mm
r <sub>1,2</sub> - min.	0.6 mm
a	33 mm
d <sub>a</sub> - min.	23 mm
d <sub>b</sub> - min.	23 mm
D <sub>a</sub> - max.	37 mm
D <sub>b</sub> - max.	37 mm
r <sub>a</sub> - max.	0.6 mm
Basic dynamic load rating - C	16.6 kN
Basic static load rating - C <sub>0</sub>	34.5 kN
Fatigue load limit - P <sub>u</sub>	1.3 kN
Limiting speed for grease lubrication	11000 r/min
Limiting speed for oil lubrication	15000 mm/min



## Super-Precision Bearings Manufacturer

Preload class A	1040 N
Preload class B	2080 N
Frictional moment, Preload class A	0.04 N · m
Frictional moment, Preload class B	0.072 N · m
Static Axial rigidity, Preload class A	550 N/micron
Static Axial rigidity, Preload class B	700 N/micron
Max. axial load - $F_a$	max. 10.3 kN
$G_{ref}$	0.5 cm <sup>3</sup>
$d_1$	24.17 mm
$d_2$	29 mm
$D_1$	29.1 mm
$D_2$	34.38 mm
$r_{1,2}$ min.	0.6 mm
$d_a$ min.	23 mm
$d_b$ min.	23 mm
$D_a$ max.	37 mm
$D_b$ max.	37 mm
$r_a$ max.	0.6 mm
Basic dynamic load rating C	16.6 kN
Basic static load rating $C_0$	34.5 kN
Fatigue load limit $P_u$	1.27 kN
Attainable speed for grease lubrication	11000 r/min
Attainable speed for oil-air lubrication	15000 r/min
Frictional moment, preload class A	0.04 N · m
Frictional moment, preload class B	0.072 N · m
Static axial stiffness, preload A	550 N/ $\mu$ m



## Super-Precision Bearings Manufacturer

Static axial stiffness, preload B	700 N/ $\mu$ m
Maximum axial load carrying capacity $F_a$ max.	10.3 kN
Reference grease quantity $G_{ref}$	0.5 cm <sup>3</sup>
Mass bearing	0.078 kg