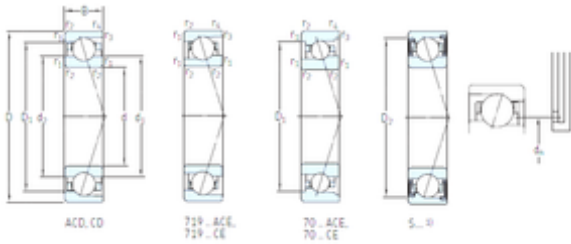


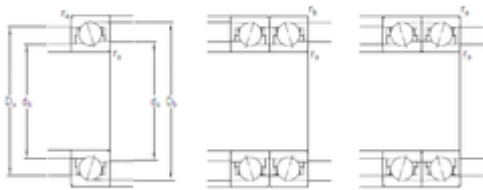


# LINEAR BEARINGS CO.,LTD



17 mm x 35 mm x 10 mm SKF S7003 CD/P4A angular contact ball bearings

Bearing No. S7003 CD/P4A



S7003 CD/P4A Bearing 2D drawings and 3D CAD models

Size	17x35x10 mm
Bore Diameter	17 mm
Outer Diameter	35 mm
Width	10 mm
d	17 mm
D	35 mm
B	10 mm
C	10 mm
d1	22,6 mm
d2	22,6 mm
r1 min.	0,3 mm
r2 min.	0,3 mm
r3 min.	0,2 mm
r4 min.	0,2 mm
D1	29,3 mm
D2	32,4 mm
da min.	19 mm
Da max.	33 mm
db min	19 mm
ra max.	0,3 mm
rb max.	0,2 mm
dh	23,7 mm
Db max	33,6 mm
Weight	0,038 Kg
Basic dynamic load rating (C)	6,76 kN



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Basic static load rating (C0)	3,25 kN
(Grease) Lubrication Speed	50 000 r/min
(Oil) Lubrication Speed	75 000 r/min
Fatigue load limit (Pu)	0,137
d <sub>1</sub>	22.6 mm
d <sub>2</sub>	22.6 mm
D <sub>2</sub>	32.4 mm
r <sub>1,2</sub> min.	0.3 mm
r <sub>3,4</sub> min.	0.2 mm
a	8.5 mm
d <sub>a</sub> min.	19 mm
d <sub>a</sub> max.	22.2 mm
d <sub>b</sub> min.	19 mm
d <sub>b</sub> max.	22.2 mm
D <sub>a</sub> max.	33 mm
D <sub>b</sub> max.	33.6 mm
r <sub>a</sub> max.	0.3 mm
r <sub>b</sub> max.	0.2 mm
Basic dynamic load rating C	6.76 kN
Basic static load rating C <sub>0</sub>	3.25 kN
Fatigue load limit P <sub>u</sub>	0.137 kN
Attainable speed for grease lubrication	50000 r/min
Ball diameter D <sub>w</sub>	5.556 mm
Number of balls z	12
Preload class A G <sub>A</sub>	25 N
Static axial stiffness, preload class A	19 N/ μ m
Preload class B G <sub>B</sub>	50 N
Static axial stiffness, preload class B	26 N/ μ m
Preload class C G <sub>C</sub>	100 N
Static axial stiffness, preload	35 N/ μ m



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class C	
Preload class D $G_D$	200 N
Static axial stiffness, preload class D	50 N/ $\mu$ m
Calculation factor f	1.04
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.02
Calculation factor $f_{2C}$	1.05
Calculation factor $f_{2D}$	1.09
Calculation factor $f_{HC}$	1
Calculation factor $f_0$	9.1
Mass bearing	0.038 kg