



Bearing No. S7203 CD/HCP4A

D	40 mm
d	17 mm
B	12 mm
a	9.9 mm
Ball - z	10
Size (mm)	40x17x12
Width (mm)	12
Mass bearing	0.056 kg
D <sub>2</sub>	34.4 mm
d <sub>2</sub>	24.1 mm
d <sub>1</sub>	24.1 mm
d <sub>2</sub>	24.1 mm
D <sub>2</sub>	34.4 mm
d <sub>1</sub>	24.1 mm
Bearing number	S7203 CD/HCP4A
Preload class A	23 N/micron
Preload class B	31 N/micron
Preload class D	59 N/micron
Preload class C	42 N/micron
Number of balls z	10
r <sub>b</sub> max.	0.3 mm
r <sub>a</sub> max.	0.6 mm
D <sub>b</sub> max.	37.6 mm
D <sub>a</sub> max.	35.8 mm
d <sub>b</sub> max.	23.5 mm
d <sub>a</sub> max.	23.5 mm
d <sub>a</sub> min.	21.2 mm
Bore Diameter (mm)	40
d <sub>b</sub> min.	21.2 mm
Outer Diameter (mm)	17

$r_{3,4}$ min.	0.3 mm
$d_b$ - min.	21.2 mm
Calculation factor f	1.03
$d_a$ - max.	23.5 mm
$r_{1,2}$ min.	0.6 mm
$d_a$ - min.	21.2 mm
$d_b$ - max.	23.5 mm
$D_a$ - max.	35.8 mm
$D_b$ - max.	37.6 mm
$r_a$ - max.	0.6 mm
$r_b$ - max.	0.3 mm
Ball - $D_w$	7.144 mm
$r_{3,4}$ - min.	0.3 mm
Calculation factor - f	1.03
$r_{1,2}$ - min.	0.6 mm
Ball diameter $D_w$	7.144 mm
Basic dynamic load rating C	9.23 kN
Preload class A $G_A$	35 N
Basic dynamic load rating - C	9.2 kN
Preload class C $G_C$	140 N
Preload class D $G_D$	280 N
Preload class B $G_B$	70 N
Preload class C - $G_C$	140 N
Preload class D - $G_D$	280 N
Preload class B - $G_B$	70 N
Preload class A - $G_A$	35 N
Calculation factor $f_1$	1
Fatigue load limit $P_u$	0.176 kN
Calculation factor $f_0$	8.5
Calculation factor $f_{2D}$	1.06

Calculation factor $f_{HC}$	1.01
Calculation factor $f_{2C}$	1.03
Calculation factor $f_{2B}$	1.01
Calculation factor $f_{2A}$	1
Calculation factor - $f$	1
Calculation factor - $f_0$	8.5
Fatigue load limit - $P_u$	0.176 kN
Calculation factor - $f_{2C}$	1.03
Calculation factor - $f_{2D}$	1.06
Calculation factor - $f_{2B}$	1.01
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{HC}$	1.01
Limiting speed for grease lubrication	53000 r/min
Basic static load rating $C_0$	4.15 kN
Static axial stiffness, preload class A	23 N/ $\mu$ m
Static axial stiffness, preload class B	31 N/ $\mu$ m
Static axial stiffness, preload class C	42 N/ $\mu$ m
Static axial stiffness, preload class D	59 N/ $\mu$ m
Attainable speed for grease lubrication	53000 r/min
Basic static load rating - $C_0$	4.2 kN