



Bearing No. 7203 ACD/HCP4A

D	40 mm
d	17 mm
B	12 mm
a	12.8 mm
Ball - z	10
Size (mm)	40x17x12
Width (mm)	12
Mass bearing	0.054 kg
d_n	25.9 mm
d_n	25.9 mm
D_1	32.8 mm
d_1	24.1 mm
d_2	24.1 mm
D_1	32.8 mm
d_2	24.1 mm
d_1	24.1 mm
Bearing number	7203 ACD/HCP4A
Preload class B	76 N/micron
Preload class A	59 N/micron
Preload class D	131 N/micron
Preload class C	99 N/micron
G_{ref}	1.005 cm ³
Number of balls z	10
Bore Diameter (mm)	40
r_b max.	0.3 mm
r_a max.	0.6 mm
D_b max.	37.6 mm
D_a max.	35.8 mm
d_a min.	21.2 mm

d_b min.	21.2 mm
Outer Diameter (mm)	17
D_b - max.	37.6 mm
d_b - min.	21.2 mm
Ball - D_w	7.144 mm
$r_{1,2}$ min.	0.6 mm
$r_{3,4}$ min.	0.3 mm
d_a - min.	21.2 mm
r_a - max.	0.6 mm
D_a - max.	35.8 mm
r_b - max.	0.3 mm
Calculation factor f	1.03
Calculation factor e	0.68
$r_{1,2}$ - min.	0.6 mm
$r_{3,4}$ - min.	0.3 mm
Calculation factor - e	0.68
Calculation factor - f	1.03
Ball diameter D_w	7.144 mm
Basic dynamic load rating C	8.84 kN
Preload class C G_C	240 N
Preload class B G_B	120 N
Preload class A G_A	60 N
Preload class D G_D	480 N
Basic dynamic load rating - C	8.8 kN
Preload class B - G_B	120 N
Preload class D - G_D	480 N
Preload class C - G_C	240 N
Preload class A - G_A	60 N
Fatigue load limit P_u	0.17 kN
Calculation factor f_1	0.99

Calculation factor f_{2A}	1
Calculation factor f_{2C}	1.03
Calculation factor f_{2B}	1.01
Calculation factor f_{2D}	1.06
Calculation factor f_{HC}	1.01
Calculation factor - X_2	0.67
Calculation factor - f_1	0.99
Calculation factor - Y_1	0.92
Limiting speed for oil lubrication	67000 mm/min
Calculation factor - Y_0	0.76
Fatigue load limit - P_u	0.17 kN
Calculation factor - Y_2	1.41
Calculation factor - f_{HC}	1.01
Calculation factor - f_{2A}	1
Calculation factor - f_{2C}	1.03
Calculation factor - f_{2B}	1.01
Calculation factor - f_{2D}	1.06
Limiting speed for grease lubrication	45000 r/min
Basic static load rating C_0	4 kN
Static axial stiffness, preload class B	76 N/ μ m
Attainable speed for grease lubrication	45000 r/min
Static axial stiffness, preload class D	131 N/ μ m
Static axial stiffness, preload class C	99 N/ μ m
Static axial stiffness, preload class A	59 N/ μ m
Basic static load rating -	4 kN

C_0	
Attainable speed for oil-air lubrication	67000 r/min
Reference grease quantity G_{ref}	1.005 cm ³
Calculation factor (single, tandem) Y_2	0.87
Calculation factor (single, tandem) Y_0	0.38
Calculation factor (single, tandem) X_2	0.41
Calculation factor (back-to-back, face-to-face) Y_1	0.92
Calculation factor (back-to-back, face-to-face) Y_2	1.41
Calculation factor (back-to-back, face-to-face) Y_0	0.76
Calculation factor (back-to-back, face-to-face) X_2	0.67