



Bearing No. S7205 CD/HCP4A

D	52 mm
d	25 mm
B	15 mm
a	12.8 mm
Ball - z	13
Size (mm)	52x25x15
Width (mm)	15
Mass bearing	0.12 kg
D ₂	45.9 mm
d ₂	34.1 mm
d ₁	34.1 mm
d ₂	34.1 mm
D ₂	45.9 mm
d ₁	34.1 mm
Bearing number	S7205 CD/HCP4A
Preload class A	32 N/micron
Preload class B	42 N/micron
Preload class D	80 N/micron
Preload class C	58 N/micron
Number of balls z	13
r _b max.	0.3 mm
r _a max.	1 mm
D _b max.	49.6 mm
D _a max.	46.4 mm
d _b max.	33.5 mm
d _a max.	33.5 mm
d _a min.	30.6 mm
Bore Diameter (mm)	52
d _b min.	30.6 mm
Outer Diameter (mm)	25

$r_{3,4}$ min.	0.3 mm
d_b - min.	30.6 mm
Calculation factor f	1.03
d_a - max.	33.5 mm
$r_{1,2}$ min.	1 mm
d_a - min.	30.6 mm
d_b - max.	33.5 mm
D_a - max.	46.4 mm
D_b - max.	49.6 mm
r_a - max.	1 mm
r_b - max.	0.3 mm
Ball - D_w	7.938 mm
$r_{3,4}$ - min.	0.3 mm
Calculation factor - f	1.03
$r_{1,2}$ - min.	1 mm
Ball diameter D_w	7.938 mm
Basic dynamic load rating C	13.5 kN
Preload class A G_A	50 N
Basic dynamic load rating - C	13.5 kN
Preload class C G_C	200 N
Preload class D G_D	400 N
Preload class B G_B	100 N
Preload class C - G_C	200 N
Preload class D - G_D	400 N
Preload class B - G_B	100 N
Preload class A - G_A	50 N
Calculation factor f_1	1
Fatigue load limit P_u	0.305 kN
Calculation factor f_0	9.1
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	9.1
Fatigue load limit - P_u	0.305 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	38000 r/min
Basic static load rating C_0	7.2 kN
Static axial stiffness, preload class A	32 N/ μ m
Static axial stiffness, preload class B	42 N/ μ m
Static axial stiffness, preload class C	58 N/ μ m
Static axial stiffness, preload class D	80 N/ μ m
Attainable speed for grease lubrication	38000 r/min
Basic static load rating - C_0	7.2 kN