



Bearing No. S7010 CD/HCP4A

D	80 mm
d	50 mm
B	16 mm
a	16.8 mm
Ball - z	18
Size (mm)	80x50x16
Width (mm)	16
Mass bearing	0.22 kg
D ₂	73.3 mm
d ₂	59.2 mm
d ₁	59.2 mm
d ₂	59.2 mm
D ₂	73.3 mm
d ₁	59.2 mm
Bearing number	S7010 CD/HCP4A
Preload class A	64 N/micron
Preload class B	88 N/micron
Preload class D	179 N/micron
Preload class C	124 N/micron
Number of balls z	18
r _b max.	0.3 mm
r _a max.	1 mm
D _b max.	78 mm
D _a max.	75.4 mm
d _b max.	58.7 mm
d _a max.	58.7 mm
d _a min.	54.6 mm
Bore Diameter (mm)	80
d _b min.	54.6 mm
Outer Diameter (mm)	50

$r_{3,4}$ min.	0.3 mm
d_b - min.	54.6 mm
Calculation factor f	1.11
d_a - max.	58.7 mm
$r_{1,2}$ min.	1 mm
d_a - min.	54.6 mm
d_b - max.	58.7 mm
D_a - max.	75.4 mm
D_b - max.	78 mm
r_a - max.	1 mm
r_b - max.	0.3 mm
Ball - D_w	9.525 mm
$r_{3,4}$ - min.	0.3 mm
Calculation factor - f	1.11
$r_{1,2}$ - min.	1 mm
Ball diameter D_w	9.525 mm
Basic dynamic load rating C	29.6 kN
Preload class A G_A	110 N
Basic dynamic load rating - C	29.6 kN
Preload class C G_C	440 N
Preload class D G_D	880 N
Preload class B G_B	220 N
Preload class C - G_C	440 N
Preload class D - G_D	880 N
Preload class B - G_B	220 N
Preload class A - G_A	110 N
Calculation factor f_1	1
Fatigue load limit P_u	1.02 kN
Calculation factor f_0	15.4
Calculation factor f_{2D}	1.09

Calculation factor f_{HC}	1.02
Calculation factor f_{2C}	1.05
Calculation factor f_{2B}	1.02
Calculation factor f_{2A}	1
Calculation factor - f	1
Calculation factor - f_0	15.4
Fatigue load limit - P_u	1 kN
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2D}	1.09
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2A}	1
Calculation factor - f_{HC}	1.02
Limiting speed for grease lubrication	20000 r/min
Basic static load rating C_0	24 kN
Static axial stiffness, preload class A	64 N/ μ m
Static axial stiffness, preload class B	88 N/ μ m
Static axial stiffness, preload class C	124 N/ μ m
Static axial stiffness, preload class D	179 N/ μ m
Attainable speed for grease lubrication	20000 r/min
Basic static load rating - C_0	24 kN