



Bearing No. S7211 CD/P4A

D	100 mm
d	55 mm
B	21 mm
a	21 mm
Ball - z	15
Size (mm)	100x55x21
Width (mm)	21
Mass bearing	0.62 kg
D_2	89.1 mm
d_2	68.9 mm
d_1	68.9 mm
d_2	68.9 mm
D_2	89.1 mm
d_1	68.9 mm
Bearing number	S7211 CD/P4A
Preload class A	72 N/micron
Preload class B	98 N/micron
Preload class D	197 N/micron
Preload class C	137 N/micron
Number of balls z	15
r_b max.	0.6 mm
r_a max.	1.5 mm
D_b max.	95.8 mm
D_a max.	91 mm
d_b max.	68.1 mm
d_a max.	68.1 mm
d_a min.	64 mm
Bore Diameter (mm)	100
d_b min.	64 mm
Outer Diameter (mm)	55

$r_{3,4}$ min.	0.6 mm
d_b - min.	64 mm
Calculation factor f	1.08
d_a - max.	68.1 mm
$r_{1,2}$ min.	1.5 mm
d_a - min.	64 mm
d_b - max.	68.1 mm
D_a - max.	91 mm
D_b - max.	95.8 mm
r_a - max.	1.5 mm
r_b - max.	0.6 mm
Ball - D_w	14.288 mm
$r_{3,4}$ - min.	0.6 mm
Calculation factor - f	1.08
$r_{1,2}$ - min.	1.5 mm
Ball diameter D_w	14.288 mm
Basic dynamic load rating C	55.3 kN
Preload class A G_A	210 N
Basic dynamic load rating - C	55.3 kN
Preload class C G_C	840 N
Preload class D G_D	1680 N
Preload class B G_B	420 N
Preload class C - G_C	840 N
Preload class D - G_D	1680 N
Preload class B - G_B	420 N
Preload class A - G_A	210 N
Calculation factor f_1	1
Fatigue load limit P_u	1.8 kN
Calculation factor f_0	14.5
Calculation factor f_{2D}	1.05

Calculation factor f_{HC}	1
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	14.5
Fatigue load limit - P_u	1.8 kN
Calculation factor - f_{2C}	1.03
Calculation factor - f_{2D}	1.05
Calculation factor - f_{2B}	1.01
Calculation factor - f_{2A}	1
Calculation factor - f_{HC}	1
Limiting speed for grease lubrication	14000 r/min
Basic static load rating C_0	43 kN
Static axial stiffness, preload class A	72 N/ μ m
Static axial stiffness, preload class B	98 N/ μ m
Static axial stiffness, preload class C	137 N/ μ m
Static axial stiffness, preload class D	197 N/ μ m
Attainable speed for grease lubrication	14000 r/min
Basic static load rating - C_0	43 kN