



Bearing No. S7209 CD/P4A

D	85 mm
d	45 mm
B	19 mm
a	18.3 mm
Ball - z	14
Size (mm)	85x45x19
Width (mm)	19
Mass bearing	0.42 kg
D_2	75.7 mm
d_2	57.3 mm
d_1	57.3 mm
d_2	57.3 mm
D_2	75.7 mm
d_1	57.3 mm
Bearing number	S7209 CD/P4A
Preload class A	61 N/micron
Preload class B	82 N/micron
Preload class D	166 N/micron
Preload class C	115 N/micron
Number of balls z	14
r_b max.	0.6 mm
r_a max.	1 mm
D_b max.	80.8 mm
D_a max.	78 mm
d_b max.	56.5 mm
d_a max.	56.5 mm
d_a min.	52 mm
Bore Diameter (mm)	85
d_b min.	52 mm
Outer Diameter (mm)	45

$r_{3,4}$ min.	0.6 mm
d_b - min.	52 mm
Calculation factor f	1.07
d_a - max.	56.5 mm
$r_{1,2}$ min.	1.1 mm
d_a - min.	52 mm
d_b - max.	56.5 mm
D_a - max.	78 mm
D_b - max.	80.8 mm
r_a - max.	1 mm
r_b - max.	0.6 mm
Ball - D_w	12.7 mm
$r_{3,4}$ - min.	0.6 mm
Calculation factor - f	1.07
$r_{1,2}$ - min.	1.1 mm
Ball diameter D_w	12.7 mm
Basic dynamic load rating C	42.3 kN
Preload class A G_A	160 N
Basic dynamic load rating - C	42.3 kN
Preload class C G_C	640 N
Preload class D G_D	1280 N
Preload class B G_B	320 N
Preload class C - G_C	640 N
Preload class D - G_D	1280 N
Preload class B - G_B	320 N
Preload class A - G_A	160 N
Calculation factor f_1	1
Fatigue load limit P_u	1.32 kN
Calculation factor f_0	14.2
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	14.2
Fatigue load limit - P_u	1.3 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	17000 r/min
Basic static load rating C_0	31 kN
Static axial stiffness, preload class A	61 N/ μ m
Static axial stiffness, preload class B	82 N/ μ m
Static axial stiffness, preload class C	115 N/ μ m
Static axial stiffness, preload class D	166 N/ μ m
Attainable speed for grease lubrication	17000 r/min
Basic static load rating - C_0	31 kN