



Bearing No. S7207 CD/P4A

D	72 mm
d	35 mm
B	17 mm
a	15.7 mm
Ball - z	13
Size (mm)	72x35x17
Width (mm)	17
Mass bearing	0.29 kg
$D_2$	63.2 mm
$d_2$	46.8 mm
$d_1$	46.8 mm
$d_2$	46.8 mm
$D_2$	63.2 mm
$d_1$	46.8 mm
Bearing number	S7207 CD/P4A
Preload class A	50 N/micron
Preload class B	67 N/micron
Preload class D	136 N/micron
Preload class C	94 N/micron
Number of balls z	13
$r_b$ max.	0.3 mm
$r_a$ max.	1 mm
$D_b$ max.	69.6 mm
$D_a$ max.	65 mm
$d_b$ max.	46.2 mm
$d_a$ max.	46.2 mm
$d_a$ min.	42 mm
Bore Diameter (mm)	72
$d_b$ min.	42 mm
Outer Diameter (mm)	35

$r_{3,4}$ min.	0.3 mm
$d_b$ - min.	42 mm
Calculation factor f	1.05
$d_a$ - max.	46.2 mm
$r_{1,2}$ min.	1.1 mm
$d_a$ - min.	42 mm
$d_b$ - max.	46.2 mm
$D_a$ - max.	65 mm
$D_b$ - max.	69.6 mm
$r_a$ - max.	1 mm
$r_b$ - max.	0.3 mm
Ball - $D_w$	11.112 mm
$r_{3,4}$ - min.	0.3 mm
Calculation factor - f	1.05
$r_{1,2}$ - min.	1.1 mm
Ball diameter $D_w$	11.112 mm
Basic dynamic load rating C	31.9 kN
Preload class A $G_A$	120 N
Basic dynamic load rating - C	31.9 kN
Preload class C $G_C$	480 N
Preload class D $G_D$	960 N
Preload class B $G_B$	240 N
Preload class C - $G_C$	480 N
Preload class D - $G_D$	960 N
Preload class B - $G_B$	240 N
Preload class A - $G_A$	120 N
Calculation factor $f_1$	1
Fatigue load limit $P_u$	0.915 kN
Calculation factor $f_0$	13.9
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 - $f_0$	13.9
Fatigue load limit - $P_u$	0.915 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	20000 r/min
Basic static load rating $C_0$	21.6 kN
Static axial stiffness, preload class A	50 N/ $\mu$ m
Static axial stiffness, preload class B	67 N/ $\mu$ m
Static axial stiffness, preload class C	94 N/ $\mu$ m
Static axial stiffness, preload class D	136 N/ $\mu$ m
Attainable speed for grease lubrication	20000 r/min
Basic static load rating - $C_0$	21.6 kN