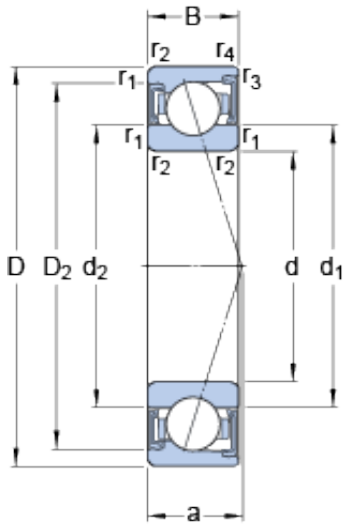




# NTL BEARINGS LTD.

## S7213 CD/HCP4A SKF High Speed Angular Contact Ball Bearings

Bearing No. S7213 CD/HCP4A



S7213 CD/HCP4A Bearing 2D drawings and 3D CAD models

Size	120x65x23 mm
Bore Diameter	120 mm
Outer Diameter	65 mm
Width	23 mm
d	65 mm
D	120 mm
B	23 mm
d <sub>1</sub>	82.9 mm
d <sub>2</sub>	82.9 mm
D <sub>2</sub>	105.3 mm
r <sub>1,2</sub> - min.	1.5 mm
r <sub>3,4</sub> - min.	0.6 mm
a	24 mm
d <sub>a</sub> - min.	74 mm
d <sub>a</sub> - max.	82.1 mm
d <sub>b</sub> - min.	74 mm
d <sub>b</sub> - max.	82.1 mm
D <sub>a</sub> - max.	111 mm
D <sub>b</sub> - max.	115.8 mm
r <sub>a</sub> - max.	1.5 mm
r <sub>b</sub> - max.	0.6 mm
Basic dynamic load rating - C	66.3 kN
Basic static load rating - C <sub>0</sub>	53 kN
Fatigue load limit - P <sub>u</sub>	2.3 kN



## NTL BEARINGS LTD.

Limiting speed for grease lubrication	15000 r/min
Ball - $D_w$	15.875 mm
Ball - $z$	15
Calculation factor - $f_0$	14.6
Preload class A - $G_A$	250 N
Preload class B - $G_B$	500 N
Preload class C - $G_C$	1000 N
Preload class D - $G_D$	2000 N
Calculation factor - $f$	1.07
Calculation factor - $f$	1
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.01
Calculation factor - $f_{2C}$	1.03
Calculation factor - $f_{2D}$	1.06
Calculation factor - $f_{HC}$	1.01
Preload class A	87 N/micron
Preload class B	118 N/micron
Preload class C	164 N/micron
Preload class D	236 N/micron
$d_1$	82.9 mm
$d_2$	82.9 mm
$D_2$	105.3 mm
$r_{1,2}$ min.	1.5 mm
$r_{3,4}$ min.	0.6 mm
$d_a$ min.	74 mm
$d_a$ max.	82.1 mm
$d_b$ min.	74 mm
$d_b$ max.	82.1 mm
$D_a$ max.	111 mm
$D_b$ max.	115.8 mm



## NTL BEARINGS LTD.

$r_a$ max.	1.5 mm
$r_b$ max.	0.6 mm
Basic dynamic load rating C	66.3 kN
Basic static load rating $C_0$	53 kN
Fatigue load limit $P_u$	2.28 kN
Attainable speed for grease lubrication	15000 r/min
Ball diameter $D_w$	15.875 mm
Number of balls z	15
Preload class A $G_A$	250 N
Static axial stiffness, preload class A	87 N/ $\mu$ m
Preload class B $G_B$	500 N
Static axial stiffness, preload class B	118 N/ $\mu$ m
Preload class C $G_C$	1000 N
Static axial stiffness, preload class C	164 N/ $\mu$ m
Preload class D $G_D$	2000 N
Static axial stiffness, preload class D	236 N/ $\mu$ m
Calculation factor f	1.07
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.01
Calculation factor $f_{2C}$	1.03
Calculation factor $f_{2D}$	1.06
Calculation factor $f_{HC}$	1.01
Calculation factor $f_0$	14.6
Mass bearing	0.88 kg