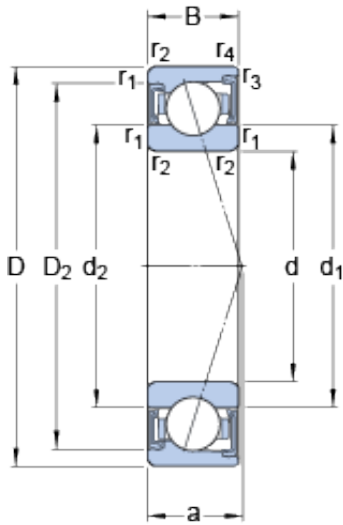




# NTL BEARINGS LTD.

## S7015 CD/HCP4A SKF High Speed Angular Contact Ball Bearings

Bearing No. S7015 CD/HCP4A



S7015 CD/HCP4A Bearing 2D drawings and 3D CAD models

Size	115x75x20 mm
Bore Diameter	115 mm
Outer Diameter	75 mm
Width	20 mm
d	75 mm
D	115 mm
B	20 mm
d <sub>1</sub>	87.3 mm
d <sub>2</sub>	87.3 mm
D <sub>2</sub>	105.62 mm
r <sub>1,2</sub> - min.	1.1 mm
r <sub>3,4</sub> - min.	0.6 mm
a	22.8 mm
d <sub>a</sub> - min.	81 mm
d <sub>a</sub> - max.	86.7 mm
d <sub>b</sub> - min.	81 mm
d <sub>b</sub> - max.	86.7 mm
D <sub>a</sub> - max.	109 mm
D <sub>b</sub> - max.	111 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.6 mm
Basic dynamic load rating - C	52.7 kN
Basic static load rating - C <sub>0</sub>	49 kN
Fatigue load limit - P <sub>u</sub>	2.1 kN



## NTL BEARINGS LTD.

Limiting speed for grease lubrication	14000 r/min
Ball - $D_w$	12.7 mm
Ball - z	20
Calculation factor - $f_0$	15.7
Preload class A - $G_A$	200 N
Preload class B - $G_B$	400 N
Preload class C - $G_C$	800 N
Preload class D - $G_D$	1600 N
Calculation factor - f	1.14
Calculation factor - f	1
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.02
Calculation factor - $f_{2C}$	1.05
Calculation factor - $f_{2D}$	1.09
Calculation factor - $f_{HC}$	1.02
Preload class A	93 N/micron
Preload class B	128 N/micron
Preload class C	179 N/micron
Preload class D	260 N/micron
$d_1$	87.3 mm
$d_2$	87.3 mm
$D_2$	105.62 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
$d_a$ min.	81 mm
$d_a$ max.	86.7 mm
$d_b$ min.	81 mm
$d_b$ max.	86.7 mm
$D_a$ max.	109 mm
$D_b$ max.	111 mm



## NTL BEARINGS LTD.

$r_a$ max.	1 mm
$r_b$ max.	0.6 mm
Basic dynamic load rating C	52.7 kN
Basic static load rating $C_0$	49 kN
Fatigue load limit $P_u$	2.08 kN
Attainable speed for grease lubrication	14000 r/min
Ball diameter $D_w$	12.7 mm
Number of balls z	20
Preload class A $G_A$	200 N
Static axial stiffness, preload class A	93 N/ $\mu$ m
Preload class B $G_B$	400 N
Static axial stiffness, preload class B	128 N/ $\mu$ m
Preload class C $G_C$	800 N
Static axial stiffness, preload class C	179 N/ $\mu$ m
Preload class D $G_D$	1600 N
Static axial stiffness, preload class D	260 N/ $\mu$ m
Calculation factor f	1.14
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.02
Calculation factor $f_{2C}$	1.05
Calculation factor $f_{2D}$	1.09
Calculation factor $f_{HC}$	1.02
Calculation factor $f_0$	15.7
Mass bearing	0.54 kg