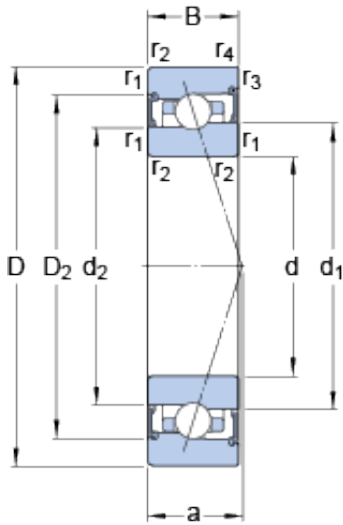




# NTL BEARINGS LTD.

## S7013 CB/P4A SKF High Speed Angular Contact Ball Bearings

Bearing No. S7013 CB/P4A



S7013 CB/P4A Bearing 2D drawings and 3D CAD models

Size	100x65x18 mm
Bore Diameter	100 mm
Outer Diameter	65 mm
Width	18 mm
d	65 mm
D	100 mm
B	18 mm
d <sub>1</sub>	78 mm
d <sub>2</sub>	76.36 mm
D <sub>2</sub>	89.69 mm
r <sub>1,2</sub> - min.	1.1 mm
r <sub>3,4</sub> - min.	0.6 mm
a	20.1 mm
d <sub>a</sub> - min.	71 mm
d <sub>a</sub> - max.	77.4 mm
d <sub>b</sub> - min.	71 mm
d <sub>b</sub> - max.	75.8 mm
D <sub>a</sub> - max.	94 mm
D <sub>b</sub> - max.	96.8 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.6 mm
Basic dynamic load rating - C	15.6 kN
Basic static load rating - C <sub>0</sub>	12.9 kN
Fatigue load limit - P <sub>u</sub>	0.55 kN



## NTL BEARINGS LTD.

Limiting speed for grease lubrication	18000 r/min
Ball - $D_w$	7.144 mm
Ball - z	27
Calculation factor - $f_0$	9.7
Preload class A - $G_A$	41 N
Preload class B - $G_B$	98 N
Preload class C - $G_C$	295 N
Calculation factor - f	1.07
Calculation factor - f	1
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.02
Calculation factor - $f_{2C}$	1.05
Calculation factor - $f_{HC}$	1
Preload class A	41 N/micron
Preload class B	54 N/micron
Preload class C	85 N/micron
$d_1$	78 mm
$d_2$	76.36 mm
$D_2$	89.69 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
$d_a$ min.	71 mm
$d_a$ max.	77.4 mm
$d_b$ min.	71 mm
$d_b$ max.	75.8 mm
$D_a$ max.	94 mm
$D_b$ max.	96.8 mm
$r_a$ max.	1 mm
$r_b$ max.	0.6 mm
Basic dynamic load rating C	19.9 kN



## NTL BEARINGS LTD.

Basic static load rating $C_0$	21.6 kN
Fatigue load limit $P_u$	0.55 kN
Attainable speed for grease lubrication	18000 r/min
Ball diameter $D_w$	7.144 mm
Number of balls $z$	27
Preload class A $G_A$	41 N
Static axial stiffness, preload class A	41 N/ $\mu$ m
Preload class B $G_B$	98 N
Static axial stiffness, preload class B	54 N/ $\mu$ m
Preload class C $G_C$	295 N
Static axial stiffness, preload class C	85 N/ $\mu$ m
Calculation factor $f$	1.07
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.02
Calculation factor $f_{2C}$	1.05
Calculation factor $f_{HC}$	1
Calculation factor $f_0$	9.7
Mass bearing	0.47 kg