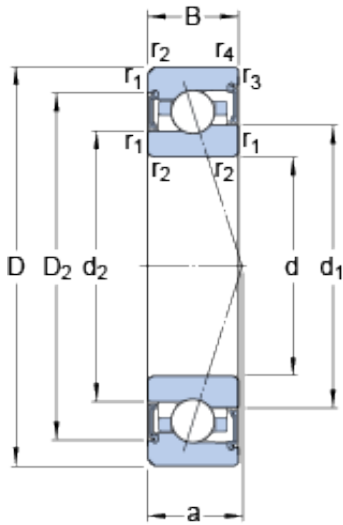




# NTL BEARINGS LTD.

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

Bearing No. S7013 ACE/P4A



S7013 ACE/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>	77.26 mm
d <sub>2</sub>	74.9 mm
D <sub>2</sub>	91.1 mm
r <sub>1,2</sub> - min.	1.1 mm
r <sub>3,4</sub> - min.	0.6 mm
a	28.4 mm
d <sub>a</sub> - min.	71 mm
d <sub>a</sub> - max.	76.5 mm
d <sub>b</sub> - min.	71 mm
d <sub>b</sub> - max.	74.1 mm
D <sub>a</sub> - max.	94 mm
D <sub>b</sub> - max.	95.8 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.6 mm
Basic dynamic load rating - C	19.5 kN
Basic static load rating - C <sub>0</sub>	14.6 kN
Fatigue load limit - P <sub>u</sub>	0.62 kN



## NTL BEARINGS LTD.

Limiting speed for grease lubrication	17000 r/min
Ball - $D_w$	8.731 mm
Ball - z	25
Calculation factor - e	0.68
Calculation factor - $Y_2$	0.87
Calculation factor - $Y_0$	0.38
Calculation factor - $X_2$	0.41
Calculation factor - $Y_1$	0.92
Calculation factor - $Y_2$	1.41
Calculation factor - $Y_0$	0.76
Calculation factor - $X_2$	0.67
Preload class A - $G_A$	170 N
Preload class B - $G_B$	520 N
Preload class C - $G_C$	1040 N
Calculation factor - f	1.09
Calculation factor - $f_1$	0.99
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.03
Calculation factor - $f_{2C}$	1.06
Calculation factor - $f_{HC}$	1
Preload class A	132 N/micron
Preload class B	198 N/micron
Preload class C	259 N/micron
$d_1$	77.26 mm
$d_2$	74.9 mm
$D_2$	91.1 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
$d_a$ min.	71 mm



## NTL BEARINGS LTD.

$d_a$ max.	76.5 mm
$d_b$ min.	71 mm
$d_b$ max.	74.1 mm
$D_a$ max.	94 mm
$D_b$ max.	95.8 mm
$r_a$ max.	1 mm
$r_b$ max.	0.6 mm
Basic dynamic load rating C	19.5 kN
Basic static load rating $C_0$	14.6 kN
Fatigue load limit $P_u$	0.62 kN
Attainable speed for grease lubrication	17000 r/min
Ball diameter $D_w$	8.731 mm
Number of balls z	25
Preload class A $G_A$	170 N
Static axial stiffness, preload class A	132 N/ $\mu$ m
Preload class B $G_B$	520 N
Static axial stiffness, preload class B	198 N/ $\mu$ m
Preload class C $G_C$	1040 N
Static axial stiffness, preload class C	259 N/ $\mu$ m
Calculation factor f	1.09
Calculation factor $f_1$	0.99
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.03
Calculation factor $f_{2C}$	1.06
Calculation factor $f_{HC}$	1
Calculation factor e	0.68
Calculation factor (single, tandem) $Y_2$	0.87
Calculation factor (single, tandem) $Y_0$	0.38



## NTL BEARINGS LTD.

Calculation factor (single, tandem) $X_2$	0.41
Calculation factor (back-to-back, face-to-face) $Y_1$	0.92
Calculation factor (back-to-back, face-to-face) $Y_2$	1.41
Calculation factor (back-to-back, face-to-face) $Y_0$	0.76
Calculation factor (back-to-back, face-to-face) $X_2$	0.67
Mass bearing	0.45 kg