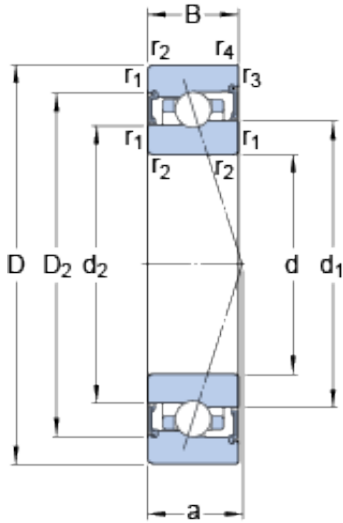




# NTL BEARINGS LTD.

## S71912 ACB/HCP4A SKF High Speed Angular Contact Ball Bearings

Bearing No. S71912 ACB/HCP4A



S71912 ACB/HCP4A Bearing 2D drawings and 3D CAD models

Size	85x60x13 mm
Bore Diameter	85 mm
Outer Diameter	60 mm
Width	13 mm
d	60 mm
D	85 mm
B	13 mm
d <sub>1</sub>	68.94 mm
d <sub>2</sub>	67.73 mm
D <sub>2</sub>	78.36 mm
r <sub>1,2</sub> - min.	1 mm
r <sub>3,4</sub> - min.	0.3 mm
a	27.2 mm
d <sub>a</sub> - min.	64.6 mm
d <sub>a</sub> - max.	68.3 mm
d <sub>b</sub> - min.	64.6 mm
d <sub>b</sub> - max.	67.1 mm
D <sub>a</sub> - max.	80.4 mm
D <sub>b</sub> - max.	83 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.3 mm
Basic dynamic load rating - C	9.8 kN
Basic static load rating - C <sub>0</sub>	8.3 kN
Fatigue load limit - P <sub>u</sub>	0.355 kN



## NTL BEARINGS LTD.

Limiting speed for grease lubrication	22000 r/min
Ball - $D_w$	5.556 mm
Ball - z	30
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 - $G_A$	57 N
Preload class B - $G_B$	115 N
Preload class C - $G_C$	340 N
Calculation factor - f	1.11
Calculation factor - $f_1$	0.99
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.02
Calculation factor - $f_{2C}$	1.08
Calculation factor - $f_{HC}$	1.01
Preload class A	104 N/micron
Preload class B	135 N/micron
Preload class C	204 N/micron
$d_1$	68.94 mm
$d_2$	67.73 mm
$D_2$	78.36 mm
$r_{1,2}$ min.	1 mm
$r_{3,4}$ min.	0.3 mm
$d_a$ min.	64.6 mm



## NTL BEARINGS LTD.

$d_a$ max.	68.3 mm
$d_b$ min.	64.6 mm
$d_b$ max.	67.1 mm
$D_a$ max.	80.4 mm
$D_b$ max.	83 mm
$r_a$ max.	1 mm
$r_b$ max.	0.3 mm
Basic dynamic load rating C	13.3 kN
Basic static load rating $C_0$	13.4 kN
Fatigue load limit $P_u$	0.355 kN
Attainable speed for grease lubrication	22000 r/min
Ball diameter $D_w$	5.556 mm
Number of balls z	30
Preload class A $G_A$	57 N
Static axial stiffness, preload class A	104 N/ $\mu$ m
Preload class B $G_B$	115 N
Static axial stiffness, preload class B	135 N/ $\mu$ m
Preload class C $G_C$	340 N
Static axial stiffness, preload class C	204 N/ $\mu$ m
Calculation factor f	1.11
Calculation factor $f_1$	0.99
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.02
Calculation factor $f_{2C}$	1.08
Calculation factor $f_{HC}$	1.01
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	0.19 kg