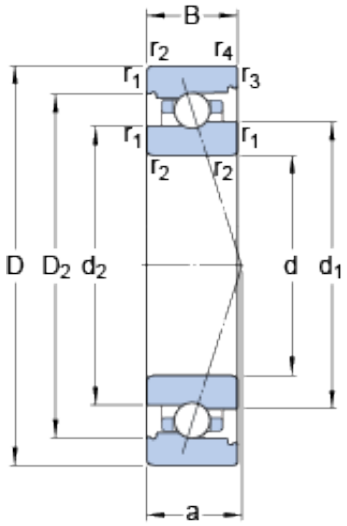
NTL BEARINGS LTD.



7013 CB/HCP4A Bearing 2D drawings and 3D CAD models

7013 CB/HCP4A SKF High Speed Angular Contact Ball Bearings

Bearing No. 7013 CB/HCP4A

Size	100x65x18 mm
Bore Diameter	100 mm
Outer Diameter	65 mm
Width	18 mm
d	65 mm
D	100 mm
B	18 mm
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
a	20.1 mm
d_a - min.	71 mm
d_b - min.	71 mm
D_a - max.	94 mm
D_b - max.	96.8 mm
r_a - max.	1 mm
r_b - max.	0.6 mm
d_n	79 mm
Basic dynamic load rating - C	15.6 kN
Basic static load rating - C_0	12.9 kN
Fatigue load limit - P_u	0.55 kN
Limiting speed for grease	22000 r/min

lubrication	
Limiting speed for oil lubrication	34000 mm/min
Ball - D_w	7.144 mm
Ball - z	27
G_{ref}	5.49 cm3
Calculation factor - f_0	9.7
Preload class A - G_A	49 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}	1.01
Preload class A	45 N/micron
Preload class B	59 N/micron
Preload class C	94 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_b min.	71 mm
D_a max.	94 mm
D_b max.	96.8 mm
r_a max.	1 mm
r_b max.	0.6 mm
d_n	79 mm

Basic dynamic load rating C	19.9 kN
Basic static load rating C_0	21.6 kN
Fatigue load limit P_u	0.55 kN
Attainable speed for grease lubrication	22000 r/min
Attainable speed for oil-air lubrication	34000 r/min
Ball diameter D_w	7.144 mm
Number of balls z	27
Reference grease quantity G_{ref}	5.49 cm^3
Preload class A G_A	49 N
Static axial stiffness, preload class A	45 N/µm
Preload class B G_B	98 N
Static axial stiffness, preload class B	59 N/µm
Preload class C G_C	295 N
Static axial stiffness, preload class C	94 N/µm
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}	1.01
Calculation factor f_0	9.7
Mass bearing	0.45 kg