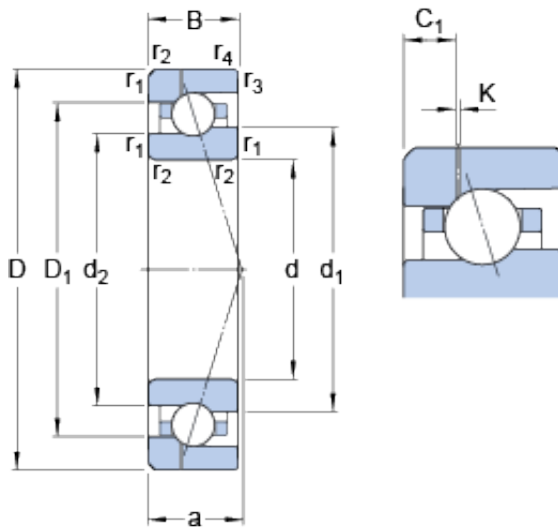




Bearing No. 7013 ACE/HCP4AH1

K	0.5 mm
a	28.4 mm
d	65 mm
D	100 mm
B	18 mm
Ball - z	25
Size (mm)	100x65x18
Width (mm)	18
Mass bearing	0.39 kg
d_n	79.3 mm
D_1	87.72 mm
d_1	77.26 mm
C_1	5.92 mm
D_1	87.72 mm
d_2	74.9 mm
C_1	5.92 mm
d_1	77.26 mm
d_n	79.3 mm
d_2	74.9 mm
Bearing number	7013 ACE/HCP4AH1
Preload class A	146 N/micron
Preload class B	220 N/micron
Preload class C	287 N/micron
G_{ref}	6.2 cm ³
Number of balls z	25
Bore Diameter (mm)	100
r_b max.	0.6 mm
r_a max.	1 mm
D_b max.	95.8 mm

D_a max.	94 mm
d_a min.	71 mm
d_b min.	71 mm
Outer Diameter (mm)	65
r_a - max.	1 mm
$r_{3,4}$ min.	0.6 mm
D_a - max.	94 mm
d_b - min.	71 mm
$r_{1,2}$ min.	1.1 mm
Ball - D_w	8.731 mm
r_b - max.	0.6 mm
D_b - max.	95.8 mm
Calculation factor f	1.09
Calculation factor e	0.68
d_a - min.	71 mm
Calculation factor - f	1.09
$r_{3,4}$ - min.	0.6 mm
$r_{1,2}$ - min.	1.1 mm
Calculation factor - e	0.68
Ball diameter D_w	8.731 mm
Basic dynamic load rating C	19.5 kN
Preload class A G_A	170 N
Preload class B G_B	520 N
Preload class C G_C	1040 N
Basic dynamic load rating - C	19.5 kN
Preload class B - G_B	520 N
Preload class C - G_C	1040 N
Preload class A - G_A	170 N
Fatigue load limit P_u	0.62 kN
Calculation factor f_1	0.99

Calculation factor f_{2C}	1.06
Calculation factor f_{2B}	1.03
Calculation factor f_{HC}	1.01
Calculation factor f_{2A}	1
Calculation factor - f_1	0.99
Limiting speed for oil lubrication	31000 mm/min
Fatigue load limit - P_u	0.62 kN
Calculation factor - Y_0	0.76
Calculation factor - Y_1	0.92
Calculation factor - X_2	0.67
Calculation factor - Y_2	1.41
Calculation factor - f_{HC}	1.01
Calculation factor - f_{2C}	1.06
Calculation factor - f_{2B}	1.03
Calculation factor - f_{2A}	1
Limiting speed for grease lubrication	20000 r/min
Basic static load rating C_0	14.6 kN
Static axial stiffness, preload class C	287 N/ μ m
Attainable speed for grease lubrication	20000 r/min
Static axial stiffness, preload class B	220 N/ μ m
Static axial stiffness, preload class A	146 N/ μ m
Attainable speed for oil-air lubrication	31000 r/min
Basic static load rating - C_0	14.6 kN
Reference grease	6.2 cm ³

quantity G_{ref}	
Calculation factor (single, tandem) Y_2	0.87
Calculation factor (single, tandem) Y_0	0.38
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