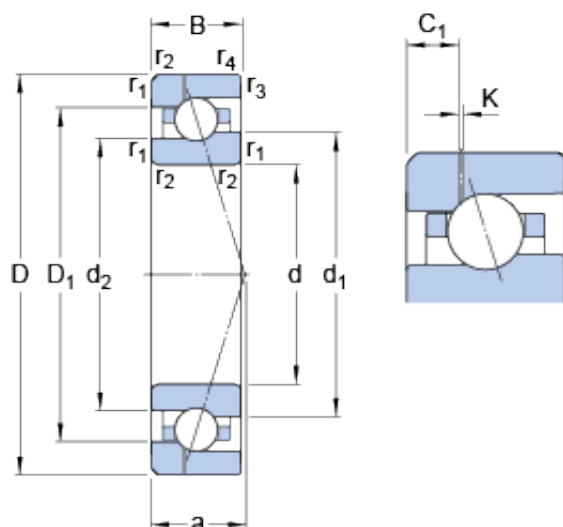




Bearing No. 7016 ACE/P4AH1

K	0.5 mm
a	35.1 mm
d	80 mm
D	125 mm
B	22 mm
Ball - z	25
Size (mm)	125x80x22
Width (mm)	22
Mass bearing	0.86 kg
d_n	98.5 mm
D_1	109.17 mm
d_1	95.83 mm
C_1	7.27 mm
D_1	109.17 mm
d_2	93 mm
C_1	7.27 mm
d_1	95.83 mm
d_n	98.5 mm
d_2	93 mm
Bearing number	7016 ACE/P4AH1
Preload class A	178 N/micron
Preload class B	268 N/micron
Preload class C	352 N/micron
G_{ref}	12 cm ³
Number of balls z	25
Bore Diameter (mm)	125
r_b max.	0.6 mm
r_a max.	1 mm
D_b max.	120.8 mm

D_a max.	119 mm
d_a min.	86 mm
d_b min.	86 mm
Outer Diameter (mm)	80
r_a - max.	1 mm
$r_{3,4}$ min.	0.6 mm
D_a - max.	119 mm
d_b - min.	86 mm
$r_{1,2}$ min.	1.1 mm
Ball - D_w	11.112 mm
r_b - max.	0.6 mm
D_b - max.	120.8 mm
Calculation factor f	1.1
Calculation factor e	0.68
d_a - min.	86 mm
Calculation factor - f	1.1
$r_{3,4}$ - min.	0.6 mm
$r_{1,2}$ - min.	1.1 mm
Calculation factor - e	0.68
Ball diameter D_w	11.112 mm
Basic dynamic load rating C	32.5 kN
Preload class A G_A	280 N
Preload class B G_B	850 N
Preload class C G_C	1700 N
Basic dynamic load rating - C	32.5 kN
Preload class B - G_B	850 N
Preload class C - G_C	1700 N
Preload class A - G_A	280 N
Fatigue load limit P_u	1.12 kN
Calculation factor f_1	0.99

Calculation factor f_{2C}	1.06
Calculation factor f_{2B}	1.03
Calculation factor f_{HC}	1
Calculation factor f_{2A}	1
Calculation factor - f_1	0.99
Limiting speed for oil lubrication	21000 mm/min
Fatigue load limit - P_u	1.1 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
Calculation factor - f_{2C}	1.06
Calculation factor - f_{2B}	1.03
Calculation factor - f_{2A}	1
Limiting speed for grease lubrication	13700 r/min
Basic static load rating C_0	26.5 kN
Static axial stiffness, preload class C	352 N/ μ m
Attainable speed for grease lubrication	13700 r/min
Static axial stiffness, preload class B	268 N/ μ m
Static axial stiffness, preload class A	178 N/ μ m
Attainable speed for oil-air lubrication	21000 r/min
Basic static load rating - C_0	26.5 kN
Reference grease	12 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