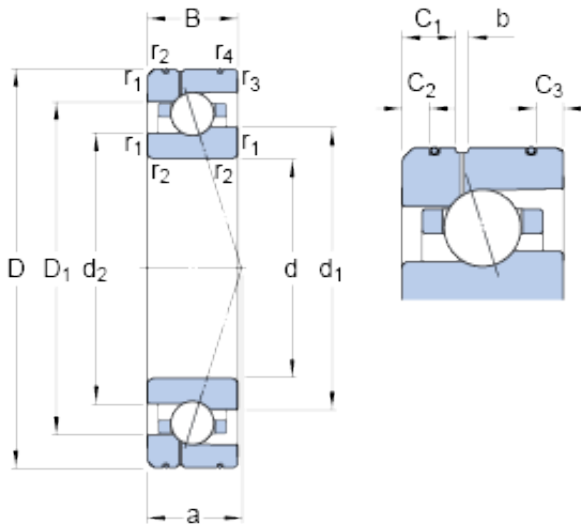




Bearing Rolamentos do Brasil Ltda.



80 mm x 125 mm x 22 mm SKF 7016 ACE/P4AL1 angular contact ball bearings

Bearing No. 7016 ACE/P4AL1

7016 ACE/P4AL1 Bearing 2D drawings and 3D CAD models

Size	80x125x22 mm
Bore Diameter	80 mm
Outer Diameter	125 mm
Width	22 mm
d	80 mm
D	125 mm
B	22 mm
d ₁	95.83 mm
d ₂	93 mm
D ₁	109.17 mm
b	1.8 mm
C ₁	6.5 mm
C ₂	3.8 mm
C ₃	3.8 mm
r _{1,2} - min.	1.1 mm
r _{3,4} - min.	0.6 mm
a	35.1 mm
d _a - min.	86 mm
d _b - min.	86 mm
D _a - max.	119 mm
D _b - max.	120.8 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
d _n	98.5 mm



Bearing Rolamentos do Brasil Ltda.

Basic dynamic load rating - C	32.5 kN
Basic static load rating - C ₀	26.5 kN
Fatigue load limit - P _u	1.1 kN
Limiting speed for grease lubrication	13700 r/min
Limiting speed for oil lubrication	21000 mm/min
Ball - D _w	11.112 mm
Ball - z	25
G _{ref}	12 cm ³
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	280 N
Preload class B - G _B	850 N
Preload class C - G _C	1700 N
Calculation factor - f	1.1
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	178 N/micron
Preload class B	268 N/micron



Bearing Rolamentos do Brasil Ltda.

Preload class C	352 N/micron
d_1	95.83 mm
d_2	93 mm
D_1	109.17 mm
C_1	6.5 mm
C_2	3.8 mm
C_3	3.8 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
d_a min.	86 mm
d_b min.	86 mm
D_a max.	119 mm
D_b max.	120.8 mm
r_a max.	1 mm
r_b max.	0.6 mm
d_n	98.5 mm
Basic dynamic load rating C	32.5 kN
Basic static load rating C_0	26.5 kN
Fatigue load limit P_u	1.12 kN
Attainable speed for grease lubrication	13700 r/min
Attainable speed for oil-air lubrication	21000 r/min
Ball diameter D_w	11.112 mm
Number of balls z	25
Reference grease quantity G_{ref}	12 cm ³
Preload class A G_A	280 N
Static axial stiffness, preload class A	178 N/ μ m
Preload class B G_B	850 N
Static axial stiffness, preload class B	268 N/ μ m
Preload class C G_C	1700 N



Bearing Rolamentos do Brasil Ltda.

Static axial stiffness, preload class C	352 N/ μ m
Calculation factor f	1.1
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
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	0.86 kg