



110 mm x 150 mm x 20 mm SKF 71922 ACE/P4AH1 Angular contact ball bearing

Bearing No. 71922 ACE/P4AH1

71922 ACE/P4AH1 Bearing 2D drawings and 3D CAD models

Size	150x110x20 mm
Bore Diameter	150 mm
Outer Diameter	110 mm
Width	20 mm
d	110 mm
D	150 mm
B	20 mm
d ₁	122.4 mm
d ₂	119 mm
D ₁	137.51 mm
K	0.5 mm
C ₁	5.78 mm
r _{1,2} - min.	1.1 mm
r _{3,4} - min.	0.6 mm
a	42.7 mm
d _a - min.	116 mm
d _b - min.	113.2 mm
D _a - max.	144 mm
D _b - max.	146.8 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
d _n	125.4 mm
Basic dynamic load rating - C	37.7 kN
Basic static load rating - C ₀	32.5 kN

Fatigue load limit - P_u	1.2 kN
Limiting speed for grease lubrication	10300 r/min
Limiting speed for oil lubrication	16000 mm/min
Ball - D_w	12.7 mm
Ball - z	26
G_{ref}	11 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	340 N
Preload class B - G_B	1030 N
Preload class C - G_C	2070 N
Calculation factor - f	1.2
Calculation factor - f_1	0.99
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.04
Calculation factor - f_{2C}	1.07
Calculation factor - f_{HC}	1
Preload class A	199 N/micron
Preload class B	301 N/micron
Preload class C	397 N/micron
d_1	122.4 mm
d_2	119 mm

D_1	137.51 mm
C_1	5.78 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
d_a min.	116 mm
d_b min.	113.2 mm
D_a max.	144 mm
D_b max.	146.8 mm
r_a max.	1 mm
r_b max.	0.6 mm
d_n	125.4 mm
Basic dynamic load rating C	37.7 kN
Basic static load rating C_0	32.5 kN
Fatigue load limit P_u	1.18 kN
Attainable speed for grease lubrication	10300 r/min
Attainable speed for oil-air lubrication	16000 r/min
Ball diameter D_w	12.7 mm
Number of balls z	26
Reference grease quantity G_{ref}	11 cm ³
Preload class A G_A	340 N
Static axial stiffness, preload class A	199 N/ μ m
Preload class B G_B	1030 N
Static axial stiffness, preload class B	301 N/ μ m
Preload class C G_C	2070 N
Static axial stiffness, preload class C	397 N/ μ m
Calculation factor f	1.2
Calculation factor f_1	0.99
Calculation factor f_{2A}	1

Calculation factor f_{2B}	1.04
Calculation factor f_{2C}	1.07
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	0.83 kg