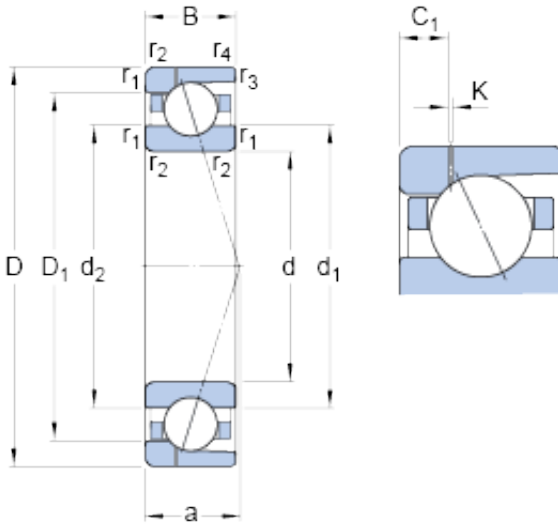




Timken BEARING CORP.of CANADA LTD.



160 mm x 220 mm x 28 mm SKF 71932 ACD/HCP4AH1 angular contact ball bearings

Bearing No. 71932 ACD/HCP4AH1

71932 ACD/HCP4AH1 Bearing 2D drawings and 3D
CAD models

Size	220x160x28 mm
Bore Diameter	220 mm
Outer Diameter	160 mm
Width	28 mm
d	160 mm
D	220 mm
B	28 mm
d ₁	178.5 mm
d ₂	178.5 mm
D ₁	201.5 mm
K	0.6 mm
C ₁	7.32 mm
r _{1,2} - min.	2 mm
r _{3,4} - min.	1 mm
a	58.5 mm
d _a - min.	169 mm
d _b - min.	169 mm
D _a - max.	211 mm
D _b - max.	215 mm
r _a - max.	2 mm
r _b - max.	1 mm
d _n	183.5 mm
Basic dynamic load rating - C	124 kN
Basic static load rating - C ₀	153 kN



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Fatigue load limit - P_u	4.8 kN
Limiting speed for grease lubrication	6300 r/min
Limiting speed for oil lubrication	9500 mm/min
Ball - D_w	19.05 mm
Ball - z	28
G_{ref}	33 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	800 N
Preload class B - G_B	1600 N
Preload class C - G_C	3200 N
Preload class D - G_D	6400 N
Calculation factor - f	1.27
Calculation factor - f_1	0.98
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.07
Calculation factor - f_{2C}	1.12
Calculation factor - f_{2D}	1.17
Calculation factor - f_{HC}	1.04
Preload class A	446 N/micron
Preload class B	588 N/micron
Preload class C	788 N/micron



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Preload class D	1076 N/micron
d_1	178.5 mm
d_2	178.5 mm
D_1	201.5 mm
C_1	7.32 mm
$r_{1,2}$ min.	2 mm
$r_{3,4}$ min.	1 mm
d_a min.	169 mm
d_b min.	169 mm
D_a max.	211 mm
D_b max.	215 mm
r_a max.	2 mm
r_b max.	1 mm
d_n	183.5 mm
Basic dynamic load rating C	124 kN
Basic static load rating C_0	153 kN
Fatigue load limit P_u	4.75 kN
Attainable speed for grease lubrication	6300 r/min
Attainable speed for oil-air lubrication	9500 r/min
Ball diameter D_w	19.05 mm
Number of balls z	28
Reference grease quantity G_{ref}	33 cm ³
Preload class A G_A	800 N
Static axial stiffness, preload class A	446 N/ μ m
Preload class B G_B	1600 N
Static axial stiffness, preload class B	588 N/ μ m
Preload class C G_C	3200 N
Static axial stiffness, preload class C	788 N/ μ m



Timken BEARING CORP.of CANADA LTD.

Preload class D G_D	6400 N
Static axial stiffness, preload class D	1076 N/ μ m
Calculation factor f	1.27
Calculation factor f_1	0.98
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.07
Calculation factor f_{2C}	1.12
Calculation factor f_{2D}	1.17
Calculation factor f_{HC}	1.04
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	2.23 kg