



BEARING CORP.OF AMERICA



71832 ACD/P4 Bearing 2D drawings and 3D CAD models

160 mm x 200 mm x 20 mm SKF 71832
ACD/P4 angular contact ball bearings

Bearing No. 71832 ACD/P4

Size	200x160x20 mm
Bore Diameter	200 mm
Outer Diameter	160 mm
Width	20 mm
d	160 mm
D	200 mm
B	20 mm
d ₁	173.35 mm
d ₂	173.35 mm
D ₁	186.7 mm
r _{1,2} - min.	1.1 mm
r _{3,4} - min.	0.6 mm
a	52.1 mm
d _a - min.	166 mm
d _b - min.	166 mm
D _a - max.	194 mm
D _b - max.	196.8 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
d _n	175.6 mm
Basic dynamic load rating - C	50.7 kN
Basic static load rating - C ₀	75 kN
Fatigue load limit - P _u	2.4 kN
Limiting speed for grease	5000 r/min



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Lubrication	
Limiting speed for oil lubrication	8000 mm/min
Ball - D_w	11.112 mm
Ball - z	38
G_{ref}	14 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	450 N
Preload class B - G_B	1350 N
Preload class C - G_C	2690 N
Calculation factor - f	1.42
Calculation factor - f_1	0.97
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.08
Calculation factor - f_{2C}	1.15
Calculation factor - f_{HC}	1
Preload class A	352 N/micron
Preload class B	556 N/micron
Preload class C	764 N/micron
d_1	173.35 mm
d_2	173.35 mm
D_1	186.7 mm
$r_{1,2}$ min.	1.1 mm



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$r_{3,4}$ min.	0.6 mm
d_a min.	166 mm
d_b min.	166 mm
D_a max.	194 mm
D_b max.	196.8 mm
r_a max.	1 mm
r_b max.	0.6 mm
d_n	175.6 mm
Basic dynamic load rating C	50.7 kN
Basic static load rating C_0	75 kN
Fatigue load limit P_u	2.36 kN
Attainable speed for grease lubrication	5000 r/min
Attainable speed for oil-air lubrication	8000 r/min
Ball diameter D_w	11.112 mm
Number of balls z	38
Reference grease quantity G_{ref}	14 cm ³
Preload class A G_A	450 N
Static axial stiffness, preload class A	352 N/ μ m
Preload class B G_B	1350 N
Static axial stiffness, preload class B	556 N/ μ m
Preload class C G_C	2690 N
Static axial stiffness, preload class C	764 N/ μ m
Calculation factor f	1.42
Calculation factor f_1	0.97
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.08
Calculation factor f_{2C}	1.15
Calculation factor f_{HC}	1



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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	1.23 kg