



BEARING-SINGAPORE (PTE)LTD.



71815 ACD/HCP4 Bearing 2D drawings and 3D CAD models

75 mm x 95 mm x 10 mm SKF 71815 ACD/HCP4 angular contact ball bearings

Bearing No. 71815 ACD/HCP4

Size	95x75x10 mm
Bore Diameter	95 mm
Outer Diameter	75 mm
Width	10 mm
d	75 mm
D	95 mm
B	10 mm
d ₁	81.7 mm
d ₂	81.7 mm
D ₁	88.5 mm
r _{1,2} - min.	0.6 mm
r _{3,4} - min.	0.3 mm
a	24.9 mm
d _a - min.	78.2 mm
d _b - min.	78.2 mm
D _a - max.	91.8 mm
D _b - max.	93 mm
r _a - max.	0.6 mm
r _b - max.	0.3 mm
d _n	82.4 mm
Basic dynamic load rating - C	13.3 kN
Basic static load rating - C ₀	16 kN
Fatigue load limit - P _u	0.68 kN
Limiting speed for grease	14000 r/min



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Lubrication	
Limiting speed for oil lubrication	22000 mm/min
Ball - D_w	5.556 mm
Ball - z	33
G_{ref}	1.5 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	120 N
Preload class B - G_B	360 N
Preload class C - G_C	720 N
Calculation factor - f	1.36
Calculation factor - f_1	0.97
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.09
Calculation factor - f_{2C}	1.17
Calculation factor - f_{HC}	1.02
Preload class A	180 N/micron
Preload class B	285 N/micron
Preload class C	394 N/micron
d_1	81.7 mm
d_2	81.7 mm
D_1	88.5 mm
$r_{1,2}$ min.	0.6 mm



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$r_{3,4}$ min.	0.3 mm
d_a min.	78.2 mm
d_b min.	78.2 mm
D_a max.	91.8 mm
D_b max.	93 mm
r_a max.	0.6 mm
r_b max.	0.3 mm
d_n	82.4 mm
Basic dynamic load rating C	13.3 kN
Basic static load rating C_0	16 kN
Fatigue load limit P_u	0.68 kN
Attainable speed for grease lubrication	14000 r/min
Attainable speed for oil-air lubrication	22000 r/min
Ball diameter D_w	5.556 mm
Number of balls z	33
Reference grease quantity G_{ref}	1.5 cm ³
Preload class A G_A	120 N
Static axial stiffness, preload class A	180 N/ μ m
Preload class B G_B	360 N
Static axial stiffness, preload class B	285 N/ μ m
Preload class C G_C	720 N
Static axial stiffness, preload class C	394 N/ μ m
Calculation factor f	1.36
Calculation factor f_1	0.97
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.09
Calculation factor f_{2C}	1.17
Calculation factor f_{HC}	1.02



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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	0.13 kg