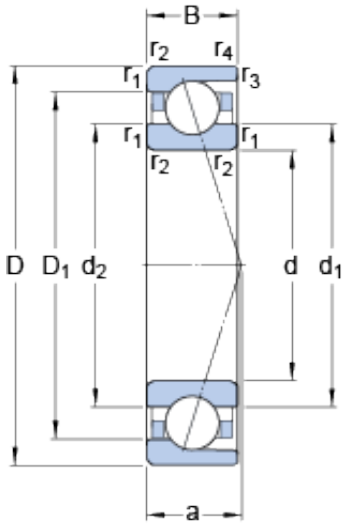

71822 ACD/P4 Bearing 2D drawings and 3D CAD models

110 mm x 140 mm x 16 mm SKF 71822 ACD/P4 Double Row Cylindrical Roller Bearings

Bearing No. 71822 ACD/P4

Size	140x110x16 mm
Bore Diameter	140 mm
Outer Diameter	110 mm
Width	16 mm
d	110 mm
D	140 mm
B	16 mm
d_1	119.8 mm
d_2	119.8 mm
D_1	130.6 mm
$r_{1,2}$ - min.	1 mm
$r_{3,4}$ - min.	0.3 mm
a	37.2 mm
d_a - min.	114.6 mm
d_b - min.	114.6 mm
D_a - max.	135.4 mm
D_b - max.	138 mm
r_a - max.	1 mm
r_b - max.	0.3 mm
d_n	120.9 mm
Basic dynamic load rating - C	30.2 kN
Basic static load rating - C_0	38 kN
Fatigue load limit - P_u	1.5 kN
Limiting speed for grease	7500 r/min

lubrication	
Limiting speed for oil lubrication	12000 mm/min
Ball - D_w	8.731 mm
Ball - z	32
G_{ref}	5.1 cm3
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	260 N
Preload class B - G_B	800 N
Preload class C - G_C	1600 N
Calculation factor - f	1.34
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	236 N/micron
Preload class B	377 N/micron
Preload class C	518 N/micron
d_1	119.8 mm
d_2	119.8 mm
D_1	130.6 mm
$r_{1,2}$ min.	1 mm

$r_{3,4}$ min.	0.3 mm
d_a min.	114.6 mm
d_b min.	114.6 mm
D_a max.	135.4 mm
D_b max.	138 mm
r_a max.	1 mm
r_b max.	0.3 mm
d_n	120.9 mm
Basic dynamic load rating C	30.2 kN
Basic static load rating C_0	38 kN
Fatigue load limit P_u	1.46 kN
Attainable speed for grease lubrication	7500 r/min
Attainable speed for oil-air lubrication	12000 r/min
Ball diameter D_w	8.731 mm
Number of balls z	32
Reference grease quantity G_{ref}	5.1 cm^3
Preload class A G_A	260 N
Static axial stiffness, preload class A	236 N/µm
Preload class B G_B	800 N
Static axial stiffness, preload class B	377 N/µm
Preload class C G_C	1600 N
Static axial stiffness, preload class C	518 N/µm
Calculation factor f	1.34
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

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	0.51 kg