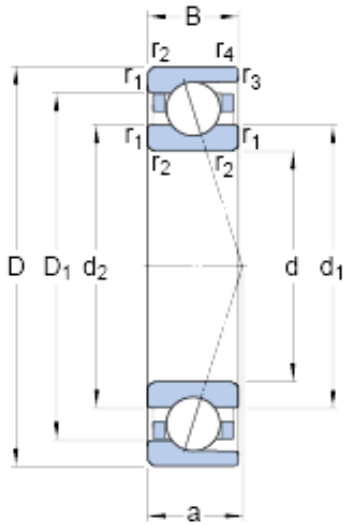




ISO Bearing Rolamentos do Brasil Ltda.



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

110 mm x 140 mm x 16 mm SKF 71822
ACD/P4 Rodas de aço pressionadas Fila única
Linhas Angulares Barbas de Bola

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



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Limiting speed for grease lubrication	7500 r/min
Limiting speed for oil lubrication	12000 mm/min
Ball - D_w	8.731 mm
Ball - z	32
G_{ref}	5.1 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	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



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$r_{1,2}$ 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/ μ m
Preload class B G_B	800 N
Static axial stiffness, preload class B	377 N/ μ m
Preload class C G_C	1600 N
Static axial stiffness, preload class C	518 N/ μ m
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



ISO Bearing Rolamentos do Brasil Ltda.

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