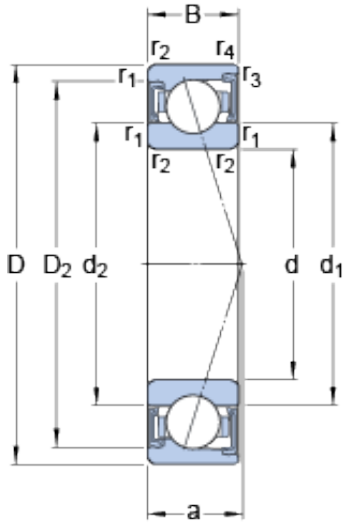




NTL BEARINGS LTD.

S7214 ACD/P4A SKF High Speed Angular Contact Ball Bearings

Bearing No. S7214 ACD/P4A



S7214 ACD/P4A Bearing 2D drawings and 3D CAD models

Size	125x70x24 mm
Bore Diameter	125 mm
Outer Diameter	70 mm
Width	24 mm
d	70 mm
D	125 mm
B	24 mm
d ₁	87.9 mm
d ₂	87.9 mm
D ₂	110.3 mm
r _{1,2} - min.	1.5 mm
r _{3,4} - min.	0.6 mm
a	34.9 mm
d _a - min.	79 mm
d _a - max.	87.1 mm
d _b - min.	79 mm
d _b - max.	87.1 mm
D _a - max.	116 mm
D _b - max.	120.8 mm
r _a - max.	1.5 mm
r _b - max.	0.6 mm
Basic dynamic load rating - C	66.3 kN
Basic static load rating - C ₀	55 kN
Fatigue load limit - P _u	2.4 kN



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Limiting speed for grease lubrication	9500 r/min
Ball - D_w	15.875 mm
Ball - z	16
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	420 N
Preload class B - G_B	840 N
Preload class C - G_C	1680 N
Preload class D - G_D	3360 N
Calculation factor - f	1.08
Calculation factor - f_1	0.99
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.01
Calculation factor - f_{2C}	1.02
Calculation factor - f_{2D}	1.05
Calculation factor - f_{HC}	1
Preload class A	201 N/micron
Preload class B	261 N/micron
Preload class C	345 N/micron
Preload class D	464 N/micron
d_1	87.9 mm
d_2	87.9 mm
D_2	110.3 mm



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$r_{1,2}$ min.	1.5 mm
$r_{3,4}$ min.	0.6 mm
d_a min.	79 mm
d_a max.	87.1 mm
d_b min.	79 mm
d_b max.	87.1 mm
D_a max.	116 mm
D_b max.	120.8 mm
r_a max.	1.5 mm
r_b max.	0.6 mm
Basic dynamic load rating C	66.3 kN
Basic static load rating C_0	55 kN
Fatigue load limit P_u	2.36 kN
Attainable speed for grease lubrication	9500 r/min
Ball diameter D_w	15.875 mm
Number of balls z	16
Preload class A G_A	420 N
Static axial stiffness, preload class A	201 N/ μ m
Preload class B G_B	840 N
Static axial stiffness, preload class B	261 N/ μ m
Preload class C G_C	1680 N
Static axial stiffness, preload class C	345 N/ μ m
Preload class D G_D	3360 N
Static axial stiffness, preload class D	464 N/ μ m
Calculation factor f	1.08
Calculation factor f_1	0.99
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.01
Calculation factor f_{2C}	1.02



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Calculation factor f_{2D}	1.05
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	1.13 kg