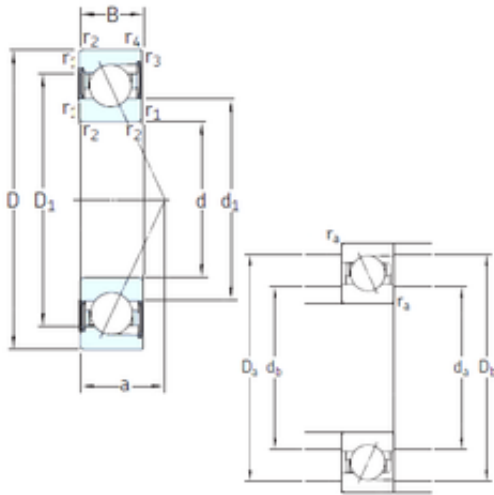




NTL BEARINGS LTD.

S7214 ACD/HCP4A SKF High Speed Angular Contact Ball Bearings

Bearing No. S7214 ACD/HCP4A



S7214 ACD/HCP4A Bearing 2D drawings and 3D CAD models

Size	70x125x24 mm
Bore Diameter	70 mm
Outer Diameter	125 mm
Width	24 mm
d	70 mm
D	125 mm
B	24 mm
C	24 mm
a	35 mm
d1	87,9 mm
d2	87,9 mm
r1 min.	1,5 mm
r2 min.	1,5 mm
r3 min.	0,6 mm
r4 min.	0,6 mm
D1	107,1 mm
D2	110,3 mm
da min.	79 mm
Da max.	116 mm
db min	79 mm
ra max.	1,5 mm
rb max.	0,6 mm
dh	91,6 mm
Db max	120,8 mm
Weight	0,95 Kg



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Basic dynamic load rating (C)	66,3 kN
Basic static load rating (C ₀)	55 kN
(Grease) Lubrication Speed	12 000 r/min
(Oil) Lubrication Speed	19 000 r/min
Fatigue load limit (P _u)	2,36
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
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	12000 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	223 N/ μ m
Preload class B G _B	840 N
Static axial stiffness, preload class B	290 N/ μ m
Preload class C G _C	1680 N



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Static axial stiffness, preload class C	383 N/ μ m
Preload class D G_D	3360 N
Static axial stiffness, preload class D	515 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}	1.03
Calculation factor f_{2D}	1.06
Calculation factor f_{HC}	1.01
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	0.97 kg