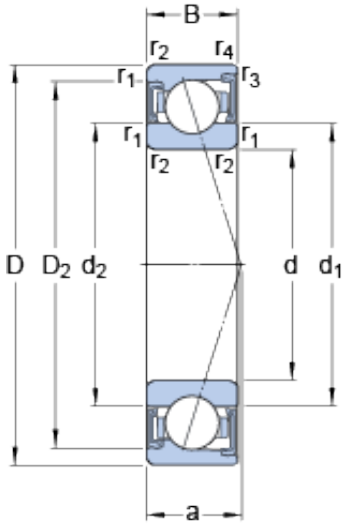
Loyal | S7214 ACD/P4A



Bearing No. S7214 ACD/P4A

D	125 mm
d	70 mm
B	24 mm
a	34.9 mm
Ball - z	16
Size (mm)	125x70x24
Width (mm)	24
Mass bearing	1.13 kg
D_2	110.3 mm
d_2	87.9 mm
d_1	87.9 mm
d_2	87.9 mm
D_2	110.3 mm
d_1	87.9 mm
Bearing number	S7214 ACD/P4A
Preload class B	261 N/micron
Preload class A	201 N/micron
Preload class D	464 N/micron
Preload class C	345 N/micron
Number of balls z	16
r_b max.	0.6 mm
r_a max.	1.5 mm
D_b max.	120.8 mm
D_a max.	116 mm
d_b max.	87.1 mm
d_b min.	79 mm
d_a max.	87.1 mm
Bore Diameter (mm)	125
d_a min.	79 mm
Outer Diameter (mm)	70

d_a - max.	87.1 mm
d_a - min.	79 mm
Calculation factor e	0.68
Calculation factor f	1.08
d_b - max.	87.1 mm
D_b - max.	120.8 mm
r_a - max.	1.5 mm
r_b - max.	0.6 mm
d_b - min.	79 mm
$r_{3,4}$ min.	0.6 mm
$r_{1,2}$ min.	1.5 mm
Ball - D_w	15.875 mm
D_a - max.	116 mm
$r_{3,4}$ - min.	0.6 mm
$r_{1,2}$ - min.	1.5 mm
Calculation factor - f	1.08
Calculation factor - e	0.68
Ball diameter D_w	15.875 mm
Basic dynamic load rating C	66.3 kN
Preload class A G_A	420 N
Basic dynamic load rating - C	66.3 kN
Preload class B G_B	840 N
Preload class C G_C	1680 N
Preload class D G_D	3360 N
Preload class B - G_B	840 N
Preload class C - G_C	1680 N
Preload class A - G_A	420 N
Preload class D - G_D	3360 N
Calculation factor f_1	0.99
Fatigue load limit P_u	2.36 kN

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
Calculation factor - X_2	0.67
Calculation factor - Y_1	0.92
Calculation factor - Y_2	1.41
Fatigue load limit - P_u	2.4 kN
Calculation factor - Y_0	0.76
Calculation factor - f_1	0.99
Calculation factor - f_{HC}	1
Calculation factor - f_{2D}	1.05
Calculation factor - f_{2C}	1.02
Calculation factor - f_{2B}	1.01
Calculation factor - f_{2A}	1
Limiting speed for grease lubrication	9500 r/min
Basic static load rating C_0	55 kN
Static axial stiffness, preload class D	464 N/µm
Attainable speed for grease lubrication	9500 r/min
Static axial stiffness, preload class C	345 N/µm
Static axial stiffness, preload class B	261 N/µm
Static axial stiffness, preload class A	201 N/µm
Basic static load rating - C_0	55 kN

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