



Bearing No. S7214 ACD/HCP4A

D	125 mm
d	70 mm
B	24 mm
C	24 mm
a	35 mm
d2	87,9 mm
D1	107,1 mm
d1	87,9 mm
dh	91,6 mm
D2	110,3 mm
Weight	0,95 Kg
db min	79 mm
Db max	120,8 mm
ra max.	1,5 mm
Da max.	116 mm
da min.	79 mm
r2 min.	1,5 mm
r4 min.	0,6 mm
r3 min.	0,6 mm
r1 min.	1,5 mm
rb max.	0,6 mm
Size (mm)	70x125x24
Width (mm)	24
Mass bearing	0.97 kg
d ₁	87.9 mm
D ₂	110.3 mm
d ₂	87.9 mm
Bearing number	S7214 ACD/HCP4A
Number of balls z	16
d _a max.	87.1 mm

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 min.	79 mm
Bore Diameter (mm)	70
Outer Diameter (mm)	125
$r_{3,4}$ min.	0.6 mm
$r_{1,2}$ min.	1.5 mm
Calculation factor f	1.08
Calculation factor e	0.68
Fatigue load limit (Pu)	2,36
(Oil) Lubrication Speed	19 000 r/min
(Grease) Lubrication Speed	12 000 r/min
Ball diameter D_w	15.875 mm
Basic dynamic load rating C	66.3 kN
Basic static load rating (C0)	55 kN
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
Basic dynamic load rating (C)	66,3 kN
Fatigue load limit P_u	2.36 kN
Calculation factor f_1	0.99
Calculation factor f_{2B}	1.01
Calculation factor f_{HC}	1.01
Calculation factor f_{2D}	1.06

Calculation factor f_{2C}	1.03
Calculation factor f_{2A}	1
Basic static load rating C_0	55 kN
Attainable speed for grease lubrication	12000 r/min
Static axial stiffness, preload class D	515 N/ μ m
Static axial stiffness, preload class C	383 N/ μ m
Static axial stiffness, preload class B	290 N/ μ m
Static axial stiffness, preload class A	223 N/ μ m
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