



Bearing No. 7214 CD/HCP4A

D	125 mm
d	70 mm
B	24 mm
a	25.1 mm
Ball - z	16
Size (mm)	125x70x24
Width (mm)	24
Mass bearing	0.95 kg
$d_n$	91.6 mm
$d_n$	91.6 mm
$D_1$	107.1 mm
$d_1$	87.9 mm
$d_2$	87.9 mm
$D_1$	107.1 mm
$d_2$	87.9 mm
$d_1$	87.9 mm
Bearing number	7214 CD/HCP4A
Preload class A	92 N/micron
$G_{ref}$	13.701 cm <sup>3</sup>
Preload class C	173 N/micron
Preload class D	249 N/micron
Preload class B	124 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
$d_a$ min.	79 mm
Bore Diameter (mm)	125

$d_b$ min.	79 mm
Outer Diameter (mm)	70
$d_a$ - min.	79 mm
$r_a$ - max.	1.5 mm
$r_{1,2}$ min.	1.5 mm
Calculation factor f	1.08
$D_b$ - max.	120.8 mm
$r_{3,4}$ min.	0.6 mm
$D_a$ - max.	116 mm
Ball - $D_w$	15.875 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
Calculation factor - f	1.08
Basic dynamic load rating C	68.9 kN
Ball diameter $D_w$	15.875 mm
Preload class C $G_C$	1040 N
Preload class D $G_D$	2080 N
Preload class B $G_B$	520 N
Preload class A $G_A$	260 N
Basic dynamic load rating - C	68.9 kN
Preload class D - $G_D$	2080 N
Preload class C - $G_C$	1040 N
Preload class B - $G_B$	520 N
Preload class A - $G_A$	260 N
Calculation factor $f_1$	1
Calculation factor $f_0$	14.8
Fatigue load limit $P_u$	2.45 kN
Calculation factor $f_{HC}$	1.01

Calculation factor $f_{2D}$	1.06
Calculation factor $f_{2C}$	1.03
Calculation factor $f_{2B}$	1.01
Calculation factor $f_{2A}$	1
Calculation factor - $f$	1
Fatigue load limit - $P_u$	2.4 kN
Limiting speed for oil lubrication	20000 mm/min
Calculation factor - $f_0$	14.8
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{HC}$	1.01
Calculation factor - $f_{2C}$	1.03
Calculation factor - $f_{2B}$	1.01
Calculation factor - $f_{2D}$	1.06
Limiting speed for grease lubrication	14000 r/min
Basic static load rating $C_0$	58.5 kN
Static axial stiffness, preload class D	249 N/ $\mu$ m
Static axial stiffness, preload class B	124 N/ $\mu$ m
Static axial stiffness, preload class A	92 N/ $\mu$ m
Attainable speed for grease lubrication	14000 r/min
Static axial stiffness, preload class C	173 N/ $\mu$ m
Basic static load rating - $C_0$	58.5 kN
Attainable speed for oil-air lubrication	20000 r/min
Reference grease quantity $G_{ref}$	13.701 cm <sup>3</sup>

