



Bearing No. S7202 ACD/HCP4A

D	35 mm
d	15 mm
B	11 mm
a	11.5 mm
Ball - z	10
Size (mm)	35x15x11
Width (mm)	11
Mass bearing	0.038 kg
D <sub>2</sub>	30.7 mm
d <sub>2</sub>	21.4 mm
d <sub>1</sub>	21.4 mm
d <sub>2</sub>	21.4 mm
D <sub>2</sub>	30.7 mm
d <sub>1</sub>	21.4 mm
Bearing number	S7202 ACD/HCP4A
Preload class B	66 N/micron
Preload class A	51 N/micron
Preload class D	114 N/micron
Preload class C	86 N/micron
Number of balls z	10
r <sub>b</sub> max.	0.3 mm
r <sub>a</sub> max.	0.6 mm
D <sub>b</sub> max.	32.6 mm
D <sub>a</sub> max.	30.8 mm
d <sub>b</sub> max.	20.8 mm
d <sub>b</sub> min.	19.2 mm
d <sub>a</sub> max.	20.8 mm
Bore Diameter (mm)	35
d <sub>a</sub> min.	19.2 mm
Outer Diameter (mm)	15

$d_a$ - max.	20.8 mm
$d_a$ - min.	19.2 mm
Calculation factor e	0.68
Calculation factor f	1.03
$d_b$ - max.	20.8 mm
$D_b$ - max.	32.6 mm
$r_a$ - max.	0.6 mm
$r_b$ - max.	0.3 mm
$d_b$ - min.	19.2 mm
$r_{3,4}$ min.	0.3 mm
$r_{1,2}$ min.	0.6 mm
Ball - $D_w$	6.35 mm
$D_a$ - max.	30.8 mm
$r_{3,4}$ - min.	0.3 mm
$r_{1,2}$ - min.	0.6 mm
Calculation factor - f	1.03
Calculation factor - e	0.68
Ball diameter $D_w$	6.35 mm
Basic dynamic load rating C	7.15 kN
Preload class A $G_A$	45 N
Basic dynamic load rating - C	7.2 kN
Preload class B $G_B$	90 N
Preload class C $G_C$	180 N
Preload class D $G_D$	360 N
Preload class B - $G_B$	90 N
Preload class C - $G_C$	180 N
Preload class A - $G_A$	45 N
Preload class D - $G_D$	360 N
Calculation factor $f_1$	0.99
Fatigue load limit $P_u$	0.134 kN

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 - $X_2$	0.67
Calculation factor - $Y_1$	0.92
Calculation factor - $Y_2$	1.41
Fatigue load limit - $P_u$	0.134 kN
Calculation factor - $Y_0$	0.76
Calculation factor - $f_1$	0.99
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
Limiting speed for grease lubrication	50000 r/min
Basic static load rating $C_0$	3.2 kN
Static axial stiffness, preload class D	114 N/ $\mu$ m
Attainable speed for grease lubrication	50000 r/min
Static axial stiffness, preload class C	86 N/ $\mu$ m
Static axial stiffness, preload class B	66 N/ $\mu$ m
Static axial stiffness, preload class A	51 N/ $\mu$ m
Basic static load rating - $C_0$	3.2 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