



Bearing No. 7036 ACD/P4AH1

Size	280x180x46 mm
Bore Diameter	280 mm
Outer Diameter	180 mm
Width	46 mm
d	180 mm
D	280 mm
B	46 mm
d <sub>1</sub>	211.8 mm
d <sub>2</sub>	211.8 mm
D <sub>1</sub>	248.2 mm
K	0.6 mm
C <sub>1</sub>	13.4 mm
r <sub>1,2</sub> - min.	2.1 mm
r <sub>3,4</sub> - min.	1.1 mm
a	76.9 mm
d <sub>a</sub> - min.	191 mm
d <sub>b</sub> - min.	191 mm
D <sub>a</sub> - max.	269 mm
D <sub>b</sub> - max.	274 mm
r <sub>a</sub> - max.	2 mm
r <sub>b</sub> - max.	1 mm
d <sub>n</sub>	219.7 mm
Basic dynamic load rating - C	229 kN
Basic static load rating - C <sub>0</sub>	275 kN
Fatigue load limit - P <sub>u</sub>	7.6 kN
Limiting speed for grease lubrication	4300 r/min
Limiting speed for oil	6300 mm/min

Lubrication	
Ball - $D_w$	30.162 mm
Ball - z	21
$G_{ref}$	111 cm <sup>3</sup>
Calculation factor - e	0.68
Calculation factor - $Y_2$	0.87
Calculation factor - $Y_0$	0.38
Calculation factor - $X_2$	0.41
Calculation factor - $Y_1$	0.92
Calculation factor - $Y_2$	1.41
Calculation factor - $Y_0$	0.76
Calculation factor - $X_2$	0.67
Preload class A - $G_A$	1450 N
Preload class B - $G_B$	2900 N
Preload class C - $G_C$	5800 N
Preload class D - $G_D$	11600 N
Calculation factor - f	1.13
Calculation factor - $f_1$	0.99
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.02
Calculation factor - $f_{2C}$	1.05
Calculation factor - $f_{2D}$	1.08
Calculation factor - $f_{HC}$	1
Preload class A	456 N/micron
Preload class B	593 N/micron
Preload class C	782 N/micron
Preload class D	1052 N/micron
$d_1$	211.8 mm
$d_2$	211.8 mm

$D_1$	248.2 mm
$C_1$	13.4 mm
$r_{1,2}$ min.	2.1 mm
$r_{3,4}$ min.	1.1 mm
$d_a$ min.	191 mm
$d_b$ min.	191 mm
$D_a$ max.	269 mm
$D_b$ max.	274 mm
$r_a$ max.	2 mm
$r_b$ max.	1 mm
$d_n$	219.7 mm
Basic dynamic load rating C	229 kN
Basic static load rating $C_0$	275 kN
Fatigue load limit $P_u$	7.65 kN
Attainable speed for grease lubrication	4300 r/min
Attainable speed for oil-air lubrication	6300 r/min
Ball diameter $D_w$	30.162 mm
Number of balls z	21
Reference grease quantity $G_{ref}$	111 cm <sup>3</sup>
Preload class A $G_A$	1450 N
Static axial stiffness, preload class A	456 N/ $\mu$ m
Preload class B $G_B$	2900 N
Static axial stiffness, preload class B	593 N/ $\mu$ m
Preload class C $G_C$	5800 N
Static axial stiffness, preload class C	782 N/ $\mu$ m
Preload class D $G_D$	11600 N
Static axial stiffness,	1052 N/ $\mu$ m

preload class D	
Calculation factor f	1.13
Calculation factor $f_1$	0.99
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.02
Calculation factor $f_{2C}$	1.05
Calculation factor $f_{2D}$	1.08
Calculation factor $f_{HC}$	1
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	9.11 kg