



7032 ACD/HCP4A Bearing 2D drawings and 3D CAD models

160 mm x 240 mm x 38 mm SKF 7032  
ACD/HCP4A angular contact ball bearings

Bearing No. 7032 ACD/HCP4A

Size	240x160x38 mm
Bore Diameter	240 mm
Outer Diameter	160 mm
Width	38 mm
d	160 mm
D	240 mm
B	38 mm
d <sub>1</sub>	184.7 mm
d <sub>2</sub>	184.7 mm
D <sub>1</sub>	215.3 mm
r <sub>1,2</sub> - min.	2.1 mm
r <sub>3,4</sub> - min.	1 mm
a	65.9 mm
d <sub>a</sub> - min.	171 mm
d <sub>b</sub> - min.	171 mm
D <sub>a</sub> - max.	229 mm
D <sub>b</sub> - max.	235 mm
r <sub>a</sub> - max.	2 mm
r <sub>b</sub> - max.	1 mm
d <sub>n</sub>	191.4 mm
Basic dynamic load rating - C	182 kN
Basic static load rating - C <sub>0</sub>	204 kN
Fatigue load limit - P <sub>u</sub>	6.2 kN
Limiting speed for grease	6300 r/min



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Lubrication	
Limiting speed for oil lubrication	9500 mm/min
Ball - $D_w$	25.4 mm
Ball - $z$	22
$G_{ref}$	66 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 - $G_A$	1150 N
Preload class B - $G_B$	2300 N
Preload class C - $G_C$	4600 N
Preload class D - $G_D$	9200 N
Calculation factor - $f$	1.16
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 - $f_{HC}$	1.02
Preload class A	459 N/micron
Preload class B	599 N/micron
Preload class C	795 N/micron
Preload class D	1075 N/micron



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$d_1$	184.7 mm
$d_2$	184.7 mm
$D_1$	215.3 mm
$r_{1,2}$ min.	2.1 mm
$r_{3,4}$ min.	1 mm
$d_a$ min.	171 mm
$d_b$ min.	171 mm
$D_a$ max.	229 mm
$D_b$ max.	235 mm
$r_a$ max.	2 mm
$r_b$ max.	1 mm
$d_n$	191.4 mm
Basic dynamic load rating C	182 kN
Basic static load rating $C_0$	204 kN
Fatigue load limit $P_u$	6.2 kN
Attainable speed for grease lubrication	6300 r/min
Attainable speed for oil-air lubrication	9500 r/min
Ball diameter $D_w$	25.4 mm
Number of balls z	22
Reference grease quantity $G_{ref}$	66 cm <sup>3</sup>
Preload class A $G_A$	1150 N
Static axial stiffness, preload class A	459 N/ $\mu$ m
Preload class B $G_B$	2300 N
Static axial stiffness, preload class B	599 N/ $\mu$ m
Preload class C $G_C$	4600 N
Static axial stiffness, preload class C	795 N/ $\mu$ m
Preload class D $G_D$	9200 N
Static axial stiffness, preload class D	1075 N/ $\mu$ m



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class D	
Calculation factor f	1.16
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 $f_{HC}$	1.02
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	4.26 kg