



## Bearing equipment manufacturing Co., Ltd



7216 ACD/HCP4A Bearing 2D drawings and 3D CAD models

### 80 mm x 140 mm x 26 mm SKF 7216 ACD/HCP4A angular contact ball bearings

Bearing No. 7216 ACD/HCP4A

Size	140x80x26 mm
Bore Diameter	140 mm
Outer Diameter	80 mm
Width	26 mm
d	80 mm
D	140 mm
B	26 mm
d <sub>1</sub>	99.5 mm
d <sub>2</sub>	99.5 mm
D <sub>1</sub>	120.5 mm
r <sub>1,2</sub> - min.	2 mm
r <sub>3,4</sub> - min.	1 mm
a	38.8 mm
d <sub>a</sub> - min.	91 mm
d <sub>b</sub> - min.	91 mm
D <sub>a</sub> - max.	129 mm
D <sub>b</sub> - max.	134.4 mm
r <sub>a</sub> - max.	2 mm
r <sub>b</sub> - max.	1 mm
d <sub>n</sub>	103.4 mm
Basic dynamic load rating - C	81.9 kN
Basic static load rating - C <sub>0</sub>	72 kN
Fatigue load limit - P <sub>u</sub>	2.9 kN
Limiting speed for grease	10000 r/min



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Lubrication	
Limiting speed for oil lubrication	17000 mm/min
Ball - $D_w$	17.462 mm
Ball - $z$	17
$G_{ref}$	18.084 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 - $G_A$	520 N
Preload class B - $G_B$	1040 N
Preload class C - $G_C$	2080 N
Preload class D - $G_D$	4160 N
Calculation factor - $f$	1.09
Calculation factor - $f_1$	0.99
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
Preload class A	286 N/micron
Preload class B	337 N/micron
Preload class C	445 N/micron
Preload class D	600 N/micron



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$d_1$	99.5 mm
$d_2$	99.5 mm
$D_1$	120.5 mm
$r_{1,2}$ min.	2 mm
$r_{3,4}$ min.	1 mm
$d_a$ min.	91 mm
$d_b$ min.	91 mm
$D_a$ max.	129 mm
$D_b$ max.	134.4 mm
$r_a$ max.	2 mm
$r_b$ max.	1 mm
$d_n$	103.4 mm
Basic dynamic load rating C	81.9 kN
Basic static load rating $C_0$	72 kN
Fatigue load limit $P_u$	2.9 kN
Attainable speed for grease lubrication	10000 r/min
Attainable speed for oil-air lubrication	17000 r/min
Ball diameter $D_w$	17.462 mm
Number of balls z	17
Reference grease quantity $G_{ref}$	18.084 cm <sup>3</sup>
Preload class A $G_A$	520 N
Static axial stiffness, preload class A	286 N/ $\mu$ m
Preload class B $G_B$	1040 N
Static axial stiffness, preload class B	337 N/ $\mu$ m
Preload class C $G_C$	2080 N
Static axial stiffness, preload class C	445 N/ $\mu$ m
Preload class D $G_D$	4160 N
Static axial stiffness, preload class D	600 N/ $\mu$ m



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class D	
Calculation factor f	1.09
Calculation factor $f_1$	0.99
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 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	1.24 kg