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

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

Bearing No. 7216 CD/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 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
a	27.8 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	85.2 kN
Basic static load rating - C ₀	75 kN
Fatigue load limit - P _u	3 kN
Limiting speed for grease	12000 r/min



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Lubrication	
Limiting speed for oil lubrication	18000 mm/min
Ball - D_w	17.462 mm
Ball - z	17
G_{ref}	18.084 cm ³
Calculation factor - f_0	15.1
Preload class A - G_A	320 N
Preload class B - G_B	640 N
Preload class C - G_C	1280 N
Preload class D - G_D	2560 N
Calculation factor - f	1.09
Calculation factor - f	1
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	106 N/micron
Preload class B	144 N/micron
Preload class C	201 N/micron
Preload class D	289 N/micron
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



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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	85.2 kN
Basic static load rating C_0	75 kN
Fatigue load limit P_u	3.05 kN
Attainable speed for grease lubrication	12000 r/min
Attainable speed for oil-air lubrication	18000 r/min
Ball diameter D_w	17.462 mm
Number of balls z	17
Reference grease quantity G_{ref}	18.084 cm ³
Preload class A G_A	320 N
Static axial stiffness, preload class A	106 N/ μ m
Preload class B G_B	640 N
Static axial stiffness, preload class B	144 N/ μ m
Preload class C G_C	1280 N
Static axial stiffness, preload class C	201 N/ μ m
Preload class D G_D	2560 N
Static axial stiffness, preload class D	289 N/ μ m
Calculation factor f	1.09
Calculation factor f_1	1
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



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Calculation factor f_0	15.1
Mass bearing	1.24 kg