



Bearing equipment manufacturing Co., Ltd



7228 CD/P4A Bearing 2D drawings and 3D CAD models

140 mm x 250 mm x 42 mm SKF 7228 CD/P4A angular contact ball bearings

Bearing No. 7228 CD/P4A

Size	250x140x42 mm
Bore Diameter	250 mm
Outer Diameter	140 mm
Width	42 mm
d	140 mm
D	250 mm
B	42 mm
d ₁	176.8 mm
d ₂	176.8 mm
D ₁	213.2 mm
r _{1,2} - min.	3 mm
r _{3,4} - min.	1.5 mm
a	47.3 mm
d _a - min.	154 mm
d _b - min.	154 mm
D _a - max.	236 mm
D _b - max.	241 mm
r _a - max.	2.5 mm
r _b - max.	1.5 mm
d _n	184.8 mm
Basic dynamic load rating - C	221 kN
Basic static load rating - C ₀	240 kN
Fatigue load limit - P _u	7.4 kN
Limiting speed for grease	5600 r/min



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Lubrication	
Limiting speed for oil lubrication	8500 mm/min
Ball - D_w	30.162 mm
Ball - z	18
G_{ref}	83.931 cm ³
Calculation factor - f_0	15.2
Preload class A - G_A	850 N
Preload class B - G_B	1700 N
Preload class C - G_C	3400 N
Preload class D - G_D	6800 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}	1.05
Calculation factor - f_{HC}	1
Preload class A	163 N/micron
Preload class B	220 N/micron
Preload class C	305 N/micron
Preload class D	437 N/micron
d_1	176.8 mm
d_2	176.8 mm
D_1	213.2 mm
$r_{1,2}$ min.	3 mm
$r_{3,4}$ min.	1.5 mm
d_a min.	154 mm
d_b min.	154 mm
D_a max.	236 mm



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D_b max.	241 mm
r_a max.	2.5 mm
r_b max.	1.5 mm
d_n	184.8 mm
Basic dynamic load rating C	221 kN
Basic static load rating C_0	240 kN
Fatigue load limit P_u	7.35 kN
Attainable speed for grease lubrication	5600 r/min
Attainable speed for oil-air lubrication	8500 r/min
Ball diameter D_w	30.162 mm
Number of balls z	18
Reference grease quantity G_{ref}	83.931 cm ³
Preload class A G_A	850 N
Static axial stiffness, preload class A	163 N/ μ m
Preload class B G_B	1700 N
Static axial stiffness, preload class B	220 N/ μ m
Preload class C G_C	3400 N
Static axial stiffness, preload class C	305 N/ μ m
Preload class D G_D	6800 N
Static axial stiffness, preload class D	437 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}	1.05
Calculation factor f_{HC}	1



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Calculation factor f_0	15.2
Mass bearing	8.14 kg