



BEARING-THAILAND CO.,LTD.



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

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

Bearing No. 7228 ACD/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	66.7 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	212 kN
Basic static load rating - C ₀	228 kN
Fatigue load limit - P _u	7 kN
Limiting speed for grease	5000 r/min



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Lubrication	
Limiting speed for oil lubrication	7500 mm/min
Ball - D_w	30.162 mm
Ball - z	18
G_{ref}	83.931 cm ³
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	1350 N
Preload class B - G_B	2700 N
Preload class C - G_C	5400 N
Preload class D - G_D	10800 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}	1.02
Calculation factor - f_{2D}	1.05
Calculation factor - f_{HC}	1
Preload class A	397 N/micron
Preload class B	516 N/micron
Preload class C	679 N/micron
Preload class D	911 N/micron



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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
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	212 kN
Basic static load rating C_0	228 kN
Fatigue load limit P_u	6.95 kN
Attainable speed for grease lubrication	5000 r/min
Attainable speed for oil-air lubrication	7500 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	1350 N
Static axial stiffness, preload class A	397 N/ μ m
Preload class B G_B	2700 N
Static axial stiffness, preload class B	516 N/ μ m
Preload class C G_C	5400 N
Static axial stiffness, preload class C	679 N/ μ m
Preload class D G_D	10800 N
Static axial stiffness, preload class D	911 N/ μ 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}	1.02
Calculation factor f_{2D}	1.05
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	8.14 kg