



90 mm x 140 mm x 24 mm SKF 7018 CB/P4A angular contact ball bearings

Bearing No. 7018 CB/P4A

7018 CB/P4A Bearing 2D drawings and 3D CAD models

Size	140x90x24 mm
Bore Diameter	140 mm
Outer Diameter	90 mm
Width	24 mm
d	90 mm
D	140 mm
B	24 mm
d ₁	108.7 mm
d ₂	106.13 mm
D ₂	125 mm
r _{1,2} - min.	1.5 mm
r _{3,4} - min.	1 mm
a	27.5 mm
d _a - min.	97 mm
d _b - min.	97 mm
D _a - max.	133 mm
D _b - max.	135.4 mm
r _a - max.	1.5 mm
r _b - max.	1 mm
d _n	110 mm
Basic dynamic load rating - C	29.1 kN
Basic static load rating - C ₀	25 kN
Fatigue load limit - P _u	0.98 kN
Limiting speed for grease	12000 r/min



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Lubrication	
Limiting speed for oil lubrication	19000 mm/min
Ball - D_w	10.319 mm
Ball - z	25
G_{ref}	14.1 cm ³
Calculation factor - f_0	9.7
Preload class A - G_A	92 N
Preload class B - G_B	185 N
Preload class C - G_C	550 N
Calculation factor - f	1.07
Calculation factor - f	1
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2C}	1.05
Calculation factor - f_{HC}	1
Preload class A	54 N/micron
Preload class B	71 N/micron
Preload class C	112 N/micron
d_1	108.7 mm
d_2	106.13 mm
D_2	125 mm
$r_{1,2}$ min.	1.5 mm
$r_{3,4}$ min.	1 mm
d_a min.	97 mm
d_b min.	97 mm
D_a max.	133 mm
D_b max.	135.4 mm
r_a max.	1.5 mm
r_b max.	1 mm
d_n	110 mm



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Basic dynamic load rating C	37.7 kN
Basic static load rating C_0	43 kN
Fatigue load limit P_u	0.98 kN
Attainable speed for grease lubrication	12000 r/min
Attainable speed for oil-air lubrication	19000 r/min
Ball diameter D_w	10.319 mm
Number of balls z	25
Reference grease quantity G_{ref}	14.1 cm ³
Preload class A G_A	92 N
Static axial stiffness, preload class A	54 N/μm
Preload class B G_B	185 N
Static axial stiffness, preload class B	71 N/μm
Preload class C G_C	550 N
Static axial stiffness, preload class C	112 N/μm
Calculation factor f	1.07
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.05
Calculation factor f_{HC}	1
Calculation factor f_0	9.7
Mass bearing	1.25 kg