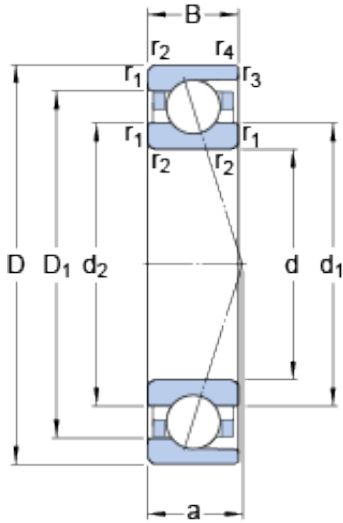




BEARING PRECISION AXLE CORP.



71810 CD/P4 SKF High Speed Angular Contact Ball Bearings

Bearing No. 71810 CD/P4

71810 CD/P4 Bearing 2D drawings and 3D CAD models

Size	65x50x7 mm
Bore Diameter	65 mm
Outer Diameter	50 mm
Width	7 mm
d	50 mm
D	65 mm
B	7 mm
d ₁	55.1 mm
d ₂	55.1 mm
D ₁	60 mm
r _{1,2} - min.	0.3 mm
r _{3,4} - min.	0.15 mm
a	11.2 mm
d _a - min.	52 mm
d _b - min.	52 mm
D _a - max.	63 mm
D _b - max.	64.2 mm
r _a - max.	0.3 mm
r _b - max.	0.15 mm
d _n	55.6 mm
Basic dynamic load rating - C	7.4 kN
Basic static load rating - C ₀	7.8 kN
Fatigue load limit - P _u	0.335 kN
Limiting speed for grease	20000 r/min



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Lubrication	
Limiting speed for oil lubrication	30000 mm/min
Ball - D_w	3.969 mm
Ball - z	30
G_{ref}	0.5 cm ³
Calculation factor - f_0	17.2
Preload class A - G_A	40 N
Preload class B - G_B	120 N
Preload class C - G_C	240 N
Calculation factor - f	1.3
Calculation factor - f	1
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.09
Calculation factor - f_{2C}	1.16
Calculation factor - f_{HC}	1
Preload class A	47 N/micron
Preload class B	81 N/micron
Preload class C	119 N/micron
d_1	55.1 mm
d_2	55.1 mm
D_1	60 mm
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.15 mm
d_a min.	52 mm
d_b min.	52 mm
D_a max.	63 mm
D_b max.	64.2 mm
r_a max.	0.3 mm
r_b max.	0.15 mm
d_n	55.6 mm



BEARING PRECISION AXLE CORP.

Basic dynamic load rating C	7.41 kN
Basic static load rating C_0	7.8 kN
Fatigue load limit P_u	0.335 kN
Attainable speed for grease lubrication	20000 r/min
Attainable speed for oil-air lubrication	30000 r/min
Ball diameter D_w	3.969 mm
Number of balls z	30
Reference grease quantity G_{ref}	0.5 cm ³
Preload class A G_A	40 N
Static axial stiffness, preload class A	47 N/ μ m
Preload class B G_B	120 N
Static axial stiffness, preload class B	81 N/ μ m
Preload class C G_C	240 N
Static axial stiffness, preload class C	119 N/ μ m
Calculation factor f	1.3
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.09
Calculation factor f_{2C}	1.16
Calculation factor f_{HC}	1
Calculation factor f_0	17.2
Mass bearing	0.051 kg