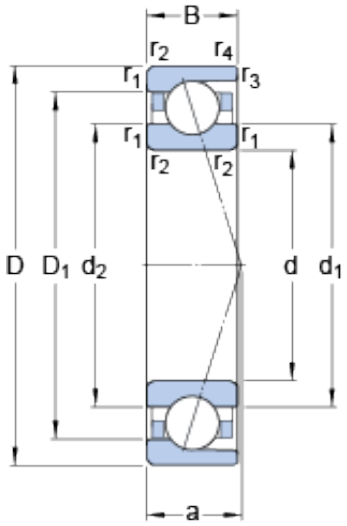

71810 ACD/P4 Bearing 2D drawings and 3D CAD models

71810 ACD/P4 SKF High Speed Angular Contact Ball Bearings

Bearing No. 71810 ACD/P4

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	16.9 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	6.9 kN
Basic static load rating - C_0	7.4 kN
Fatigue load limit - P_u	0.315 kN
Limiting speed for grease	18000 r/min

lubrication	
Limiting speed for oil lubrication	28000 mm/min
Ball - D_w	3.969 mm
Ball - z	30
G_{ref}	0.5 cm3
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	60 N
Preload class B - G_B	180 N
Preload class C - G_C	360 N
Calculation factor - f	1.3
Calculation factor - f_1	0.97
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.08
Calculation factor - f_{2C}	1.15
Calculation factor - f_{HC}	1
Preload class A	107 N/micron
Preload class B	168 N/micron
Preload class C	231 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
Basic dynamic load rating C	6.89 kN
Basic static load rating C_0	7.35 kN
Fatigue load limit P_u	0.315 kN
Attainable speed for grease lubrication	18000 r/min
Attainable speed for oil-air lubrication	28000 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	60 N
Static axial stiffness, preload class A	107 N/ µ m
Preload class B G_B	180 N
Static axial stiffness, preload class B	168 N/ µ m
Preload class C G_C	360 N
Static axial stiffness, preload class C	231 N/ µ m
Calculation factor f	1.3
Calculation factor f_1	0.97
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.08
Calculation factor f_{2C}	1.15
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	0.051 kg