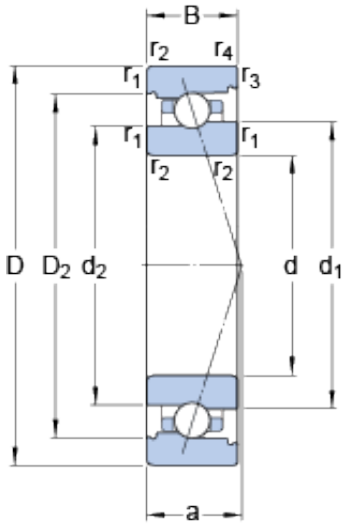

71918 ACB/HCP4A Bearing 2D drawings and 3D CAD models

90 mm x 125 mm x 18 mm SKF 71918 ACB/HCP4A Face-to-face duplex arrangement Bearings

Bearing No. 71918 ACB/HCP4A

Size	125x90x18 mm
Bore Diameter	125 mm
Outer Diameter	90 mm
Width	18 mm
d	90 mm
D	125 mm
B	18 mm
d_1	103 mm
d_2	101.4 mm
D_2	115 mm
$r_{1,2}$ - min.	1.1 mm
$r_{3,4}$ - min.	0.6 mm
a	39 mm
d_a - min.	96 mm
d_b - min.	96 mm
D_a - max.	119 mm
D_b - max.	121.8 mm
r_a - max.	1 mm
r_b - max.	0.6 mm
d_n	103.9 mm
Basic dynamic load rating - C	16.8 kN
Basic static load rating - C_0	16.6 kN
Fatigue load limit - P_u	0.68 kN

Limiting speed for grease lubrication	15000 r/min
Limiting speed for oil lubrication	22000 mm/min
Ball - D_w	7.144 mm
Ball - z	36
G_{ref}	7.37 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	100 N
Preload class B - G_B	200 N
Preload class C - G_C	600 N
Calculation factor - f	1.12
Calculation factor - f_1	0.99
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2C}	1.08
Calculation factor - f_{HC}	1.01
Preload class A	156 N/micron
Preload class B	199 N/micron
Preload class C	302 N/micron
d_1	103 mm
d_2	101.4 mm
D_2	115 mm

$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
d_a min.	96 mm
d_b min.	96 mm
D_a max.	119 mm
D_b max.	121.8 mm
r_a max.	1 mm
r_b max.	0.6 mm
d_n	103.9 mm
Basic dynamic load rating C	22.5 kN
Basic static load rating C_0	26.5 kN
Fatigue load limit P_u	0.68 kN
Attainable speed for grease lubrication	15000 r/min
Attainable speed for oil-air lubrication	22000 r/min
Ball diameter D_w	7.144 mm
Number of balls z	36
Reference grease quantity G_{ref}	7.37 cm^3
Preload class A G_A	100 N
Static axial stiffness, preload class A	156 N/ µm
Preload class B G_B	200 N
Static axial stiffness, preload class B	199 N/ µm
Preload class C G_C	600 N
Static axial stiffness, preload class C	302 N/ µm
Calculation factor f	1.12
Calculation factor f_1	0.99
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.08

Calculation factor f_{HC}	1.01
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	0.56 kg