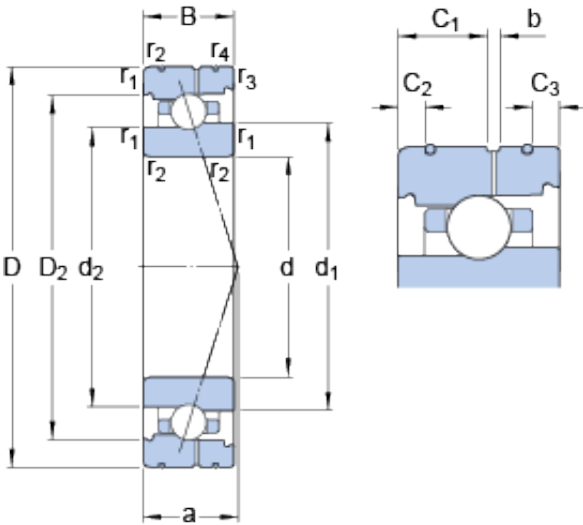




Bearing No. 7018 CB/HCP4AL

b	2.2 mm
d	90 mm
a	27.5 mm
B	24 mm
D	140 mm
Ball - z	25
Size (mm)	140x90x24
Width (mm)	24
Mass bearing	1.18 kg
d ₂	106.13 mm
D ₂	125 mm
d _n	110 mm
C ₁	13.4 mm
C ₂	5.2 mm
C ₃	4.2 mm
C ₂	5.2 mm
C ₁	13.4 mm
d _n	110 mm
D ₂	125 mm
d ₂	106.13 mm
d ₁	108.7 mm
d ₁	108.7 mm
C ₃	4.2 mm
Bearing number	7018 CB/HCP4AL
Preload class B	79 N/micron
G _{ref}	14.1 cm3
Preload class C	124 N/micron
Preload class A	61 N/micron
Number of balls z	25

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
Bore Diameter (mm)	140
Outer Diameter (mm)	90
$r_{1,2}$ min.	1.5 mm
d_a - min.	97 mm
d_b - min.	97 mm
D_a - max.	133 mm
Calculation factor f	1.07
r_b - max.	1 mm
$r_{3,4}$ min.	1 mm
r_a - max.	1.5 mm
D_b - max.	135.4 mm
Ball - D_w	10.319 mm
$r_{3,4}$ - min.	1 mm
$r_{1,2}$ - min.	1.5 mm
Calculation factor - f	1.07
Ball diameter D_w	10.319 mm
Basic dynamic load rating C	37.7 kN
Preload class B G_B	185 N
Preload class C G_C	550 N
Preload class A G_A	92 N
Basic dynamic load rating - C	29.1 kN
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	1
Calculation factor f_0	9.7
Fatigue load limit P_u	0.98 kN
Calculation factor f_{2C}	1.05
Calculation factor f_{2B}	1.02
Calculation factor - f	1
Calculation factor f_{2A}	1
Calculation factor f_{HC}	1.01
Calculation factor - f_0	9.7
Limiting speed for oil lubrication	24000 mm/min
Fatigue load limit - P_u	0.98 kN
Calculation factor - f_{HC}	1.01
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2A}	1
Calculation factor - f_{2C}	1.05
Limiting speed for grease lubrication	15000 r/min
Basic static load rating C_0	43 kN
Static axial stiffness, preload class A	61 N/μm
Static axial stiffness, preload class B	79 N/μm
Static axial stiffness, preload class C	124 N/μm
Attainable speed for grease lubrication	15000 r/min
Basic static load rating - C_0	25 kN
Attainable speed for oil-air lubrication	24000 r/min
Reference grease quantity G_{ref}	14.1 cm ³

