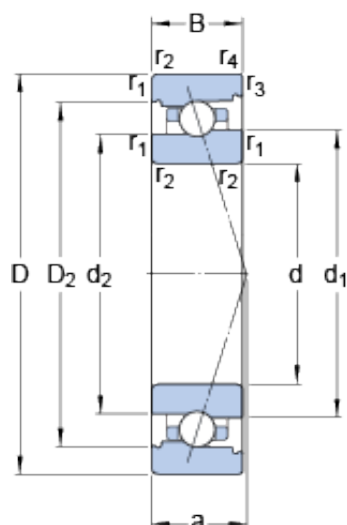




Bearing No. 7018 CB/HCP4A

D	140 mm
d	90 mm
B	24 mm
a	27.5 mm
Ball - z	25
Size (mm)	140x90x24
Width (mm)	24
Mass bearing	1.18 kg
d_n	110 mm
d_n	110 mm
D_2	125 mm
d_1	108.7 mm
d_2	106.13 mm
D_2	125 mm
d_2	106.13 mm
d_1	108.7 mm
Bearing number	7018 CB/HCP4A
Preload class A	61 N/micron
Preload class B	79 N/micron
Preload class C	124 N/micron
G_{ref}	14.1 cm ³
Number of balls z	25
D_a max.	133 mm
d_a min.	97 mm
d_b min.	97 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
d_a - min.	97 mm
r_a - max.	1.5 mm
$r_{1,2}$ min.	1.5 mm
Calculation factor f	1.07
D_b - max.	135.4 mm
$r_{3,4}$ min.	1 mm
r_b - max.	1 mm
D_a - max.	133 mm
Ball - D_w	10.319 mm
d_b - min.	97 mm
Calculation factor - f	1.07
$r_{3,4}$ - min.	1 mm
$r_{1,2}$ - min.	1.5 mm
Basic dynamic load rating C	37.7 kN
Ball diameter D_w	10.319 mm
Preload class B G_B	185 N
Preload class A G_A	92 N
Basic dynamic load rating - C	29.1 kN
Preload class C G_C	550 N
Preload class A - G_A	92 N
Preload class C - G_C	550 N
Preload class B - G_B	185 N
Calculation factor f_1	1
Fatigue load limit P_u	0.98 kN
Calculation factor f_0	9.7
Calculation factor f_{2C}	1.05
Calculation factor f_{2B}	1.02
Calculation factor f_{2A}	1
Calculation factor f_{HC}	1.01

Calculation factor - f	1
Fatigue load limit - P_u	0.98 kN
Calculation factor - f_0	9.7
Limiting speed for oil lubrication	24000 mm/min
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2A}	1
Calculation factor - f_{2C}	1.05
Calculation factor - f_{HC}	1.01
Limiting speed for grease lubrication	15000 r/min
Basic static load rating C_0	43 kN
Static axial stiffness, preload class A	61 N/ μ m
Static axial stiffness, preload class B	79 N/ μ m
Static axial stiffness, preload class C	124 N/ μ m
Attainable speed for grease lubrication	15000 r/min
Attainable speed for oil-air lubrication	24000 r/min
Basic static load rating - C_0	25 kN
Reference grease quantity G_{ref}	14.1 cm ³