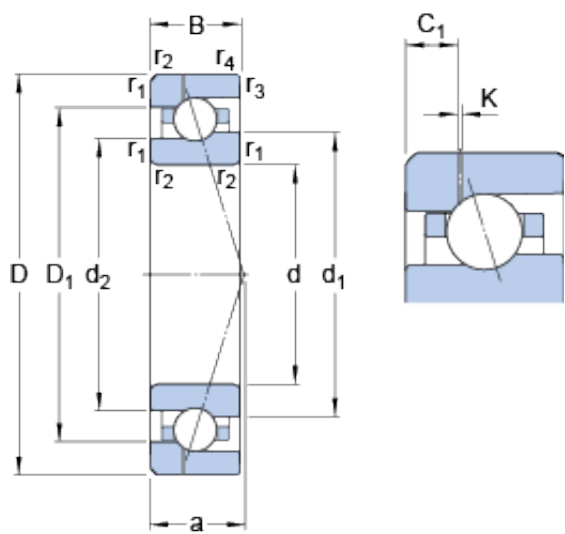




Bearing No. 7018 CE/HCP4AH1

K	0.5 mm
a	27.5 mm
d	90 mm
D	140 mm
B	24 mm
Ball - z	28
Size (mm)	140x90x24
Width (mm)	24
Mass bearing	1.11 kg
d_n	111 mm
D_1	121.66 mm
d_1	108.33 mm
C_1	8.33 mm
D_1	121.66 mm
d_2	105.5 mm
C_1	8.33 mm
d_1	108.33 mm
d_n	111 mm
d_2	105.5 mm
Bearing number	7018 CE/HCP4AH1
Preload class B	138 N/micron
Preload class C	189 N/micron
G_{ref}	14 cm3
Preload class A	87 N/micron
Number of balls z	28
D_a max.	133 mm
d_a min.	97 mm
d_b min.	97 mm
D_b max.	134.4 mm

r_a max.	1.5 mm
r_b max.	1 mm
Bore Diameter (mm)	140
Outer Diameter (mm)	90
r_b - max.	1 mm
$r_{1,2}$ min.	1.5 mm
d_a - min.	97 mm
Calculation factor f	1.1
r_a - max.	1.5 mm
$r_{3,4}$ min.	1 mm
d_b - min.	97 mm
Ball - D_w	11.112 mm
D_a - max.	133 mm
D_b - max.	134.4 mm
Calculation factor - f	1.1
$r_{3,4}$ - min.	1 mm
$r_{1,2}$ - min.	1.5 mm
Basic dynamic load rating C	35.8 kN
Ball diameter D_w	11.112 mm
Preload class C G_C	1150 N
Preload class B G_B	580 N
Preload class A G_A	190 N
Basic dynamic load rating - C	35.8 kN
Preload class C - G_C	1150 N
Preload class A - G_A	190 N
Preload class B - G_B	580 N
Calculation factor f_1	1
Calculation factor f_0	9.6
Fatigue load limit P_u	1.27 kN
Calculation factor - f	1

Calculation factor f_{HC}	1.01
Calculation factor f_{2C}	1.05
Calculation factor f_{2B}	1.03
Calculation factor f_{2A}	1
Fatigue load limit - P_u	1.3 kN
Limiting speed for oil lubrication	24000 mm/min
Calculation factor - f_0	9.6
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2B}	1.03
Calculation factor - f_{HC}	1.01
Calculation factor - f_{2A}	1
Limiting speed for grease lubrication	15500 r/min
Basic static load rating C_0	32 kN
Static axial stiffness, preload class C	189 N/ μ m
Static axial stiffness, preload class A	87 N/ μ m
Attainable speed for grease lubrication	15500 r/min
Static axial stiffness, preload class B	138 N/ μ m
Basic static load rating - C_0	32 kN
Attainable speed for oil-air lubrication	24000 r/min
Reference grease quantity G_{ref}	14 cm ³