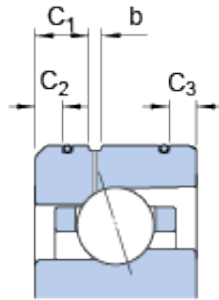
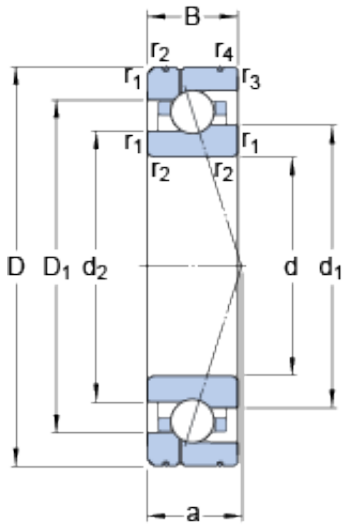




GARLOCK BEARINGS LTD



7008 CE/P4AL1 SKF High Speed Angular Contact Ball Bearings

Bearing No. 7008 CE/P4AL1

7008 CE/P4AL1 Bearing 2D drawings and 3D CAD models

Size	68x40x15 mm
Bore Diameter	68 mm
Outer Diameter	40 mm
Width	15 mm
d	40 mm
D	68 mm
B	15 mm
d ₁	49.7 mm
d ₂	47.6 mm
D ₁	58.25 mm
b	1.4 mm
C ₁	4.5 mm
C ₂	2.5 mm
C ₃	3 mm
r _{1,2} - min.	1 mm
r _{3,4} - min.	0.6 mm
a	14.8 mm
d _a - min.	44.6 mm
d _b - min.	44.6 mm
D _a - max.	63.4 mm
D _b - max.	63.8 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
d _n	51.6 mm



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Basic dynamic load rating - C	12.4 kN
Basic static load rating - C ₀	7.6 kN
Fatigue load limit - P _u	0.32 kN
Limiting speed for grease lubrication	30000 r/min
Limiting speed for oil lubrication	45000 mm/min
Ball - D _w	7.144 mm
Ball - z	19
G _{ref}	2.8 cm ³
Calculation factor - f ₀	8.1
Preload class A - G _A	65 N
Preload class B - G _B	200 N
Preload class C - G _C	390 N
Calculation factor - f	1.06
Calculation factor - f	1
Calculation factor - f _{2A}	1
Calculation factor - f _{2B}	1.03
Calculation factor - f _{2C}	1.05
Calculation factor - f _{HC}	1
Preload class A	34 N/micron
Preload class B	54 N/micron
Preload class C	73 N/micron
d ₁	49.7 mm
d ₂	47.6 mm
D ₁	58.25 mm
C ₁	4.5 mm
C ₂	2.5 mm
C ₃	3 mm
r _{1,2} min.	1 mm



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$r_{3,4}$ min.	0.6 mm
d_a min.	44.6 mm
d_b min.	44.6 mm
D_a max.	63.4 mm
D_b max.	63.8 mm
r_a max.	1 mm
r_b max.	0.6 mm
d_n	51.6 mm
Basic dynamic load rating C	12.4 kN
Basic static load rating C_0	7.65 kN
Fatigue load limit P_u	0.32 kN
Attainable speed for grease lubrication	30000 r/min
Attainable speed for oil-air lubrication	45000 r/min
Ball diameter D_w	7.144 mm
Number of balls z	19
Reference grease quantity G_{ref}	2.8 cm ³
Preload class A G_A	65 N
Static axial stiffness, preload class A	34 N/ μ m
Preload class B G_B	200 N
Static axial stiffness, preload class B	54 N/ μ m
Preload class C G_C	390 N
Static axial stiffness, preload class C	73 N/ μ m
Calculation factor f	1.06
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.03
Calculation factor f_{2C}	1.05
Calculation factor f_{HC}	1



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Calculation factor f_0	8.1
Mass bearing	0.19 kg