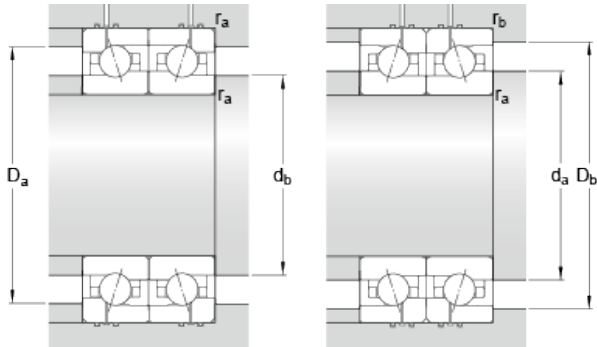




GARLOCK BEARINGS LTD



7008 ACE/P4AH1 SKF High Speed Angular Contact Ball Bearings

Bearing No. 7008 ACE/P4AH1

7008 ACE/P4AH1 Bearing 2D drawings and 3D CAD models

d	40 mm
D	68 mm
B	15 mm
d ₁	49.7 mm
d ₂	47.6 mm
D ₁	58.25 mm
K	0.5 mm
C ₁	5.03 mm
r _{1,2} min.	1 mm
r _{3,4} min.	0.6 mm
a	20.3 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	11.7 kN
Basic static load rating C ₀	7.2 kN
Fatigue load limit P _u	0.305 kN
Attainable speed for grease lubrication	27000 r/min
Attainable speed for oil-air lubrication	41000 r/min
Ball diameter D _w	7.144 mm



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Number of balls z	19
Reference grease quantity G_{ref}	2.8 cm ³
Preload class A G_A	105 N
Static axial stiffness, preload class A	87 N/ μ m
Preload class B G_B	310 N
Static axial stiffness, preload class B	129 N/ μ m
Preload class C G_C	630 N
Static axial stiffness, preload class C	169 N/ μ m
Calculation factor f	1.06
Calculation factor f_1	0.99
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.03
Calculation factor f_{2C}	1.06
Calculation factor f_{HC}	1
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	0.19 kg