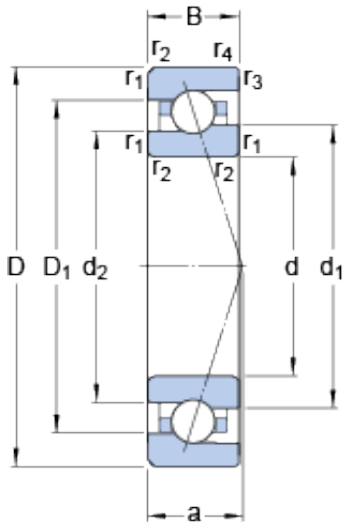




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7007 CE/HCP4A Bearing 2D drawings and 3D CAD models

35 mm x 62 mm x 14 mm SKF 7007 CE/HCP4A angular contact ball bearings

Bearing No. 7007 CE/HCP4A

Size	62x35x14 mm
Bore Diameter	62 mm
Outer Diameter	35 mm
Width	14 mm
d	35 mm
D	62 mm
B	14 mm
d ₁	43.7 mm
d ₂	41.6 mm
D ₁	52.25 mm
r _{1,2} - min.	1 mm
r _{3,4} - min.	0.6 mm
a	13.5 mm
d _a - min.	39.6 mm
d _b - min.	39.6 mm
D _a - max.	57.4 mm
D _b - max.	57.8 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
d _n	45.6 mm
Basic dynamic load rating - C	11.4 kN
Basic static load rating - C ₀	6.6 kN
Fatigue load limit - P _u	0.28 kN
Limiting speed for grease	40000 r/min



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Lubrication	
Limiting speed for oil lubrication	63000 mm/min
Ball - D_w	7.144 mm
Ball - z	17
G_{ref}	2.4 cm ³
Calculation factor - f_0	7.9
Preload class A - G_A	60 N
Preload class B - G_B	180 N
Preload class C - G_C	370 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}	1.01
Preload class A	35 N/micron
Preload class B	54 N/micron
Preload class C	74 N/micron
Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0
Product Group	B04270
Enclosure	Open
Precision Class	ABEC 7 ISO P4
Material - Ball	Ceramic
Number of Bearings	1 (Single)
Contact Angle	15 Degree
Preload	None



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Raceway Style	1 Rib Inner Ring and Outer Ring
Cage Material	Phenolic
Rolling Element	Ball Bearing
Flush Ground	No
Inch - Metric	Metric
Other Features	Single Row Angular Contact High Speed E Design
Long Description	35MM Bore; 62MM Outside Diameter; 14MM Width; Open Enclosure; ABEC 7 ISO P4 Precision; Ceramic Ball Material; 1 (Single) Bearing; 15 Degree Contact Angle; Phenolic Cage Material; 1 Rib Inner Ring an
Category	Precision Ball Bearings
UNSPSC	31171531
Harmonized Tariff Code	8482.10.50.28
Noun	Bearing
Keyword String	Ball Angular Contact
Manufacturer URL	http://www.skf.com
Bore	1.378 Inch 35 Millimeter
Width	0.551 Inch 14 Millimeter
Outside Diameter	2.441 Inch 62 Millimeter
d_1	43.7 mm
d_2	41.6 mm
D_1	52.25 mm
$r_{1,2}$ min.	1 mm
$r_{3,4}$ min.	0.6 mm
d_a min.	39.6 mm
d_b min.	39.6 mm
D_a max.	57.4 mm
D_b max.	57.8 mm



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r_a max.	1 mm
r_b max.	0.6 mm
d_n	45.6 mm
Basic dynamic load rating C	11.4 kN
Basic static load rating C_0	6.55 kN
Fatigue load limit P_u	0.28 kN
Attainable speed for grease lubrication	40000 r/min
Attainable speed for oil-air lubrication	63000 r/min
Ball diameter D_w	7.144 mm
Number of balls z	17
Reference grease quantity G_{ref}	2.4 cm ³
Preload class A G_A	60 N
Static axial stiffness, preload class A	35 N/ μ m
Preload class B G_B	180 N
Static axial stiffness, preload class B	54 N/ μ m
Preload class C G_C	370 N
Static axial stiffness, preload class C	74 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}	1.01
Calculation factor f_0	7.9
Mass bearing	0.13 kg