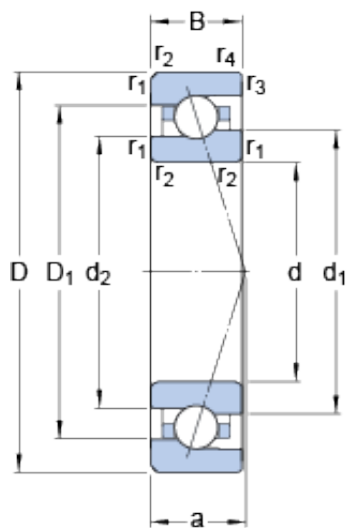




Bearing No. 7007 CE/HCP4A

D	62 mm
d	35 mm
B	14 mm
a	13.5 mm
Noun	Bearing
Bore	1.378 Inch 35 Millimeter
Width	0.551 Inch 14 Millimeter
UNSPSC	31171531
Preload	None
Category	Precision Ball Bearings
Ball - z	17
Inventory	0.0
Enclosure	Open
Size (mm)	62x35x14
Width (mm)	14
Flush Ground	No
Mass bearing	0.13 kg
d ₁	43.7 mm
d ₂	41.6 mm
d _n	45.6 mm
Inch - Metric	Metric
D ₁	52.25 mm
Cage Material	Phenolic
Raceway Style	1 Rib Inner Ring and Outer Ring
d ₂	41.6 mm
Contact Angle	15 Degree
d ₁	43.7 mm

D ₁	52.25 mm
d _n	45.6 mm
Product Group	B04270
Other Features	Single Row Angular Contact High Speed E Design
Keyword String	Ball Angular Contact
Bearing number	7007 CE/HCP4A
Rolling Element	Ball Bearing
G _{ref}	2.4 cm3
Material - Ball	Ceramic
Precision Class	ABEC 7 ISO P4
Preload class A	35 N/micron
Preload class B	54 N/micron
Preload class C	74 N/micron
Outside Diameter	2.441 Inch 62 Millimeter
Manufacturer URL	http://www.skf.com
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
Manufacturer Name	SKF
Weight / Kilogram	0
Number of balls z	17
D _b max.	57.8 mm
d _b min.	39.6 mm
d _a min.	39.6 mm
r _a max.	1 mm
r _b max.	0.6 mm

Bore Diameter (mm)	62
D _a max.	57.4 mm
Number of Bearings	1 (Single)
Outer Diameter (mm)	35
r _{1,2} min.	1 mm
Calculation factor f	1.06
Minimum Buy Quantity	N/A
r _{3,4} min.	0.6 mm
r _b - max.	0.6 mm
Ball - D _w	7.144 mm
r _a - max.	1 mm
D _b - max.	57.8 mm
D _a - max.	57.4 mm
d _b - min.	39.6 mm
d _a - min.	39.6 mm
r _{3,4} - min.	0.6 mm
r _{1,2} - min.	1 mm
Calculation factor - f	1.06
Harmonized Tariff Code	8482.10.50.28
Ball diameter D _w	7.144 mm
Basic dynamic load rating C	11.4 kN
Preload class A G _A	60 N
Preload class B G _B	180 N
Basic dynamic load rating - C	11.4 kN
Preload class C G _C	370 N
Preload class A - G _A	60 N
Preload class B - G _B	180 N
Preload class C - G _C	370 N
Fatigue load limit P _u	0.28 kN
Calculation factor f ₀	7.9

Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor - f	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
Limiting speed for oil lubrication	63000 mm/min
Fatigue load limit - P_u	0.28 kN
Calculation factor - f_{HC}	1.01
Calculation factor - f_{2B}	1.03
Calculation factor - f_{2A}	1
Calculation factor - f_{2C}	1.05
Limiting speed for grease lubrication	40000 r/min
Basic static load rating C_0	6.55 kN
Static axial stiffness, preload class A	35 N/ μ m
Static axial stiffness, preload class B	54 N/ μ m
Static axial stiffness, preload class C	74 N/ μ m
Attainable speed for grease lubrication	40000 r/min
Attainable speed for oil-air lubrication	63000 r/min
Basic static load rating - C_0	6.6 kN
Reference grease quantity G_{ref}	2.4 cm ³