



Bearing No. 7008 CE/HCP4A

D	68 mm
d	40 mm
B	15 mm
a	14.8 mm
Noun	Bearing
Bore	1.575 Inch 40 Millimeter
Width	0.591 Inch 15 Millimeter
UNSPSC	31171531
Preload	None
Category	Precision Ball Bearings
Ball - z	19
Inventory	0.0
Enclosure	Open
Size (mm)	68x40x15
Width (mm)	15
Flush Ground	No
Mass bearing	0.17 kg
d ₁	49.7 mm
d ₂	47.6 mm
d _n	51.6 mm
Inch - Metric	Metric
D ₁	58.25 mm
Cage Material	Phenolic
Raceway Style	1 Rib Inner Ring and Outer Ring
d ₂	47.6 mm
Contact Angle	15 Degree
d ₁	49.7 mm

D ₁	58.25 mm
d _n	51.6 mm
Product Group	B04270
Other Features	Single Row Angular Contact High Speed E Design
Keyword String	Ball Angular Contact
Bearing number	7008 CE/HCP4A
Preload class A	38 N/micron
Rolling Element	Ball Bearing
Preload class B	60 N/micron
Preload class C	81 N/micron
G _{ref}	2.8 cm ³
Material - Ball	Ceramic
Precision Class	ABEC 7 ISO P4
Long Description	40MM Bore; 68MM Outside Diameter; 15MM 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 URL	http://www.skf.com
Outside Diameter	2.677 Inch 68 Millimeter
Number of balls z	19
Manufacturer Name	SKF
Weight / Kilogram	0
d _a min.	44.6 mm
Number of Bearings	1 (Single)
D _a max.	63.4 mm
D _b max.	63.8 mm
r _a max.	1 mm

r_b max.	0.6 mm
Bore Diameter (mm)	68
d_b min.	44.6 mm
Outer Diameter (mm)	40
D_b - max.	63.8 mm
$r_{3,4}$ min.	0.6 mm
$r_{1,2}$ min.	1 mm
d_b - min.	44.6 mm
Calculation factor f	1.06
D_a - max.	63.4 mm
d_a - min.	44.6 mm
r_b - max.	0.6 mm
r_a - max.	1 mm
Minimum Buy Quantity	N/A
Ball - D_w	7.144 mm
Harmonized Tariff Code	8482.10.50.28
$r_{1,2}$ - min.	1 mm
Calculation factor - f	1.06
$r_{3,4}$ - min.	0.6 mm
Basic dynamic load rating C	12.4 kN
Ball diameter D_w	7.144 mm
Preload class C G_C	390 N
Preload class A G_A	65 N
Preload class B G_B	200 N
Basic dynamic load rating - C	12.4 kN
Preload class A - G_A	65 N
Preload class B - G_B	200 N
Preload class C - G_C	390 N
Fatigue load limit P_u	0.32 kN
Calculation factor f_0	8.1

Calculation factor f_1	1
Calculation factor - f	1
Calculation factor f_{2B}	1.03
Calculation factor f_{2A}	1
Calculation factor f_{2C}	1.05
Calculation factor f_{HC}	1.01
Fatigue load limit - P_u	0.32 kN
Calculation factor - f_0	8.1
Limiting speed for oil lubrication	56000 mm/min
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.03
Calculation factor - f_{HC}	1.01
Calculation factor - f_{2C}	1.05
Limiting speed for grease lubrication	36000 r/min
Basic static load rating C_0	7.65 kN
Static axial stiffness, preload class B	60 N/ μ m
Static axial stiffness, preload class A	38 N/ μ m
Static axial stiffness, preload class C	81 N/ μ m
Attainable speed for grease lubrication	36000 r/min
Attainable speed for oil-air lubrication	56000 r/min
Basic static load rating - C_0	7.6 kN
Reference grease quantity G_{ref}	2.8 cm ³