

# ISO 7320 CDT angular contact ball bearings

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Size (mm)	68x40x15
Bore Diameter (mm)	68
Outer Diameter (mm)	40
Width (mm)	15
d	40 mm
D	68 mm
B	15 mm
d1	49.2 mm
d2	49.2 mm
D1	58.8 mm
r1,2 – min.	1 mm
r3,4 – min.	0.3 mm
a	14.8 mm
da – min.	44.6 mm
db – min.	44.6 mm
Da – max.	63.4 mm
Db – max.	66 mm
ra – max.	1 mm
rb – max.	0.3 mm
dn	50.8 mm
Basic dynamic load rating – C	16.8 kN

Basic static load rating – C0	11 kN
Fatigue load limit – Pu	0.465 kN
Limiting speed for grease lubrication	24000 r/min
Limiting speed for oil lubrication	38000 mm/min
Ball – Dw	7.938 mm
Ball – z	18
Gref	2.4 cm <sup>3</sup>
Calculation factor – f0	10
Preload class A – GA	60 N
Preload class B – GB	120 N
Preload class C – GC	240 N
Preload class D – GD	480 N
Calculation factor – f	1
Calculation factor – f2A	1
Calculation factor – f2B	1.02
Calculation factor – f2C	1.05
Calculation factor – f2D	1.09
Calculation factor – fHC	1.02
Preload class A	42 N/micron
Preload class B	56 N/micron
Preload class C	76 N/micron
Preload class D	107 N/micron
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.183
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
Raceway Style	1 Rib Outer Ring
Cage Material	Phenolic
Rolling Element	Ball Bearing
Flush Ground	No
Inch – Metric	Metric
Other Features	Single Row   Angular Contact   High Precision   Hybrid   Corrosion Resistant Ball
Long Description	40MM Bore; 68MM Outside Diameter; 15MM Width; Open Enclosure; ABEC 7   ISO P4 Precision; Ceramic Bal
UNSPSC	31171531
Harmonized Tariff Code	8482.10.50.28
Noun	Bearing
Keyword String	Angular Contact Ball
Manufacturer Item Number	7008 CD/HCP4A
Weight / LBS	0.399
Bore	1.575 Inch   40 Millimeter
Width	0.591 Inch   15 Millimeter
Outside Diameter	2.677 Inch   68 Millimeter

r <sub>1,2</sub> min.	1 mm
r <sub>3,4</sub> min.	0.3 mm
d <sub>a</sub> min.	44.6 mm
d <sub>b</sub> min.	44.6 mm
D <sub>a</sub> max.	63.4 mm
D <sub>b</sub> max.	66 mm
r <sub>a</sub> max.	1 mm
r <sub>b</sub> max.	0.3 mm
Basic dynamic load rating C	16.8 kN
Basic static load rating C <sub>0</sub>	11 kN
Fatigue load limit P <sub>u</sub>	0.465 kN
Attainable speed for grease lubrication	24000 r/min
Attainable speed for oil-air lubrication	38000 r/min
Ball diameter D <sub>w</sub>	7.938 mm
Number of balls z	18
Reference grease quantity G <sub>ref</sub>	2.4 cm <sup>3</sup>
Preload class A GA	60 N
Static axial stiffness, preload class A	42 N/μm
Preload class B GB	120 N
Static axial stiffness, preload class B	56 N/μm
Preload class C GC	240 N
Static axial stiffness, preload class C	76 N/μm
Preload class D GD	480 N
Static axial stiffness, preload class D	107 N/μm

Calculation factor f	1.06
Calculation factor f1	1
Calculation factor f2A	1
Calculation factor f2B	1.02
Calculation factor f2C	1.05
Calculation factor f2D	1.09
Calculation factor fHC	1.02
Calculation factor f0	10
Mass bearing	0.17 kg