



# COOPER BEARING LIMITED



7224 BCBM Bearing 2D drawings and 3D CAD models

## 120 mm x 215 mm x 40 mm SKF 7224 BCBM Angular Contact Ball Bearings

Bearing No. 7224 BCBM

Category	Angular Contact Ball Bearings
Inventory	8.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight	5.9
EAN	7316577746016
Product Group	B00308
Enclosure	Open
Flush Ground	Yes
Rolling Element	Ball Bearing
Number of Rows of Balls	Single Row
Precision Class	ABEC 3   ISO P6
Maximum Capacity / Filling Slot	No
Snap Ring	No
Cage Material	Brass
Contact Angle	40 Degree
Internal Clearance	CB
Number of Bearings	1 (Single)
Mounting Arrangement	Universal
Inch - Metric	Metric
Long Description	120MM Bore; 215MM Outside Diameter; 40MM Width; Open; Yes Flush Ground; Ball Bearing; Single Row of Balls; ABEC 3   ISO P6; No Filling Slot; No Snap



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	Ring
Other Features	Normal Axial Internal Clearance
Category	Angular Contact Ball Bearing
UNSPSC	31171531
Harmonized Tariff Code	8482.10.50.28
Noun	Bearing
Keyword String	Angular Contact
Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>
Manufacturer Item Number	7224 BCBM
Weight / LBS	12.991
D	8.465 Inch   215 Millimeter
B	1.575 Inch   40 Millimeter
d	4.724 Inch   120 Millimeter
bore diameter:	120 mm
radial static load capacity:	163 kN
outside diameter:	215 mm
cage material:	Brass
overall width:	40 mm
outer ring width:	40 mm
contact angle:	40 °
maximum rpm:	3600 RPM
row type & fill slot:	Single-Row Non-Fill Slot
finish/coating:	Uncoated
internal clearance:	C0
precision rating:	ABEC 3 (ISO Class 6)
closure type:	Open
fillet radius:	2 mm
radial dynamic load capacity:	165 kN
series:	72
d	120 mm



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D	215 mm
B	40 mm
d <sub>1</sub>	157 mm
d <sub>2</sub>	138.6 mm
D <sub>1</sub>	179.4 mm
a	90 mm
r <sub>1,2</sub> min.	2.1 mm
r <sub>3,4</sub> min.	1.1 mm
d <sub>a</sub> min.	132 mm
D <sub>a</sub> max.	203 mm
D <sub>b</sub> max.	208 mm
r <sub>a</sub> max.	2 mm
r <sub>b</sub> max.	1 mm
Basic dynamic load rating C	165 kN
Basic static load rating C <sub>0</sub>	163 kN
Fatigue load limit P <sub>u</sub>	5.3 kN
Reference speed	3600 r/min
Limiting speed	4000 r/min
Calculation factor A	0.45
Calculation factor k <sub>r</sub>	0.08
Calculation factor e	1.14
Calculation factor X	0.35
Calculation factor Y <sub>0</sub>	0.26
Calculation factor Y <sub>2</sub>	0.57
Calculation factor X	0.57
Calculation factor Y <sub>0</sub>	0.52
Calculation factor Y <sub>1</sub>	0.55
Calculation factor Y <sub>2</sub>	0.93
Mass bearing	5.89 kg