



**Bearing No. 7416 CBM**

D	200 mm
d	80 mm
B	48 mm
a	83 mm
Noun	Bearing
Bore	3.15 Inch   80 Millimeter
Width	1.89 Inch   48 Millimeter
UNSPSC	31171531
series:	74
Category	Angular Contact Ball Bearing
Enclosure	Open
Snap Ring	No
Size (mm)	200x80x48
Inventory	0.0
Width (mm)	48
Weight / LBS	17.265
maximum rpm:	4300 RPM
Flush Ground	Yes
Mass bearing	8.1 kg
Contact Angle	40 Degree
Cage Material	Brass
closure type:	Open
Product Group	B00308
Inch - Metric	Metric
$D_1$	161.85 mm
$d_1$	117.23 mm
Other Features	Normal Axial Internal Clearance
fillet radius:	2.5 mm

contact angle:	40 °
overall width:	48 mm
bore diameter:	80 mm
Keyword String	Angular Contact
Bearing number	7416 CBM
Limiting speed	4300 r/min
Reference speed	4000 r/min
finish/coating:	Uncoated
Rolling Element	Ball Bearing
Precision Class	ABEC 3   ISO P6
Outside Diameter	7.874 Inch   200 Millimeter
Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>
Long Description	80MM Bore; 200MM Outside Diameter; 48MM Width; Open; Yes Flush Ground; Ball Bearing; Single Row of Balls; ABEC 3   ISO P6; No Filling Slot; No Snap Ring
outer ring width:	48 mm
outside diameter:	200 mm
precision rating:	Not Rated
Manufacturer Name	SKF
Weight / Kilogram	7.84
Number of Bearings	1 (Single)
Internal Clearance	CB
D <sub>a</sub> max.	110 mm
D <sub>b</sub> max.	179.4 mm
Bore Diameter (mm)	200
r <sub>a</sub> max.	2 mm
r <sub>b</sub> max.	2 mm
d <sub>a</sub> min.	55 mm
Outer Diameter (mm)	80

internal clearance:	C0
$r_{3,4}$ min.	3 mm
$r_{1,2}$ min.	3 mm
Calculation factor A	0.453
Calculation factor e	1.14
Calculation factor X	0.57
Minimum Buy Quantity	N/A
$D_b$ - max.	179.4 mm
Mounting Arrangement	Universal
$r_a$ - max.	2 mm
$d_a$ - min.	55 mm
$D_a$ - max.	110 mm
$r_b$ - max.	2 mm
row type & fill slot:	Single-Row Non-Fill Slot
$d_1$ ?	117.23 mm
$D_1$ ?	161.85 mm
$r_{1,2}$ - min.	3 mm
Calculation factor - X	0.35
Harmonized Tariff Code	8482.10.50.28
Calculation factor - e	1.14
$r_{3,4}$ - min.	3 mm
Number of Rows of Balls	Single Row
Manufacturer Item Number	7416 CBM
Basic dynamic load rating C	178 kN
radial static load capacity:	153 kN
radial dynamic load capacity:	178 kN
Basic dynamic load rating - C	178 kN
Maximum Capacity / Filling Slot	No

Fatigue load limit $P_u$	5.5 kN
Calculation factor $k_r$	0.1
Calculation factor $Y_0$	0.52
Calculation factor $Y_2$	0.93
Calculation factor $Y_1$	0.55
Calculation factor - $k_r$	0.1
Calculation factor - $Y_0$	0.26
Calculation factor - $Y_1$	
Calculation factor - $Y_2$	0.57
Fatigue load limit - $P_u$	5.5 kN
Calculation factor - $k_a$	1.6
Basic static load rating $C_0$	153 kN
Basic static load rating - $C_0$	153 kN