



**Bearing No. 7415 BCBM**

a	78 mm
d	75 mm
D	190 mm
B	45 mm
Noun	Bearing
Bore	2.953 Inch   75 Millimeter
Width	1.772 Inch   45 Millimeter
UNSPSC	31171531
series:	74
Category	Angular Contact Ball Bearing
Enclosure	Open
Snap Ring	No
Size (mm)	190x75x45
Inventory	0.0
Width (mm)	45
Weight / LBS	15.102
maximum rpm:	4500 RPM
Flush Ground	Yes
Mass bearing	6.85 kg
Contact Angle	40 Degree
Cage Material	Brass
closure type:	Open
Product Group	B00308
Inch - Metric	Metric
d <sub>2</sub>	97.65 mm
d <sub>1</sub>	119.6 mm
D <sub>1</sub>	147.6 mm

Other Features	Normal Axial Internal Clearance
fillet radius:	2.5 mm
contact angle:	40 °
overall width:	45 mm
cage material:	Brass
bore diameter:	75 mm
Keyword String	Angular Contact
Bearing number	7415 BCBM
Limiting speed	4500 r/min
finish/coating:	Uncoated
Rolling Element	Ball Bearing
Precision Class	ABEC 3   ISO P6
Reference speed	4300 r/min
Long Description	75MM Bore; 190MM Outside Diameter; 45MM Width; Open; Yes Flush Ground; Ball Bearing; Single Row of Balls; ABEC 3   ISO P6; No Filling Slot; No Snap Ring
Outside Diameter	7.48 Inch   190 Millimeter
Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>
Weight / Kilogram	6.86
precision rating:	ABEC 3 (ISO Class 6)
outside diameter:	190 mm
Manufacturer Name	SKF
outer ring width:	45 mm
d <sub>a</sub> min.	55 mm
Number of Bearings	1 (Single)
Bore Diameter (mm)	190
r <sub>b</sub> max.	2 mm
r <sub>a</sub> max.	2 mm

Internal Clearance	CB
$D_b$ max.	170.8 mm
$D_a$ max.	110 mm
internal clearance:	C0
Outer Diameter (mm)	75
$r_{1,2}$ min.	3 mm
Calculation factor A	0.377
Calculation factor e	1.14
Calculation factor X	0.57
Mounting Arrangement	Universal
$r_{3,4}$ min.	3 mm
$r_b$ - max.	2 mm
$r_a$ - max.	2 mm
$D_b$ - max.	170.8 mm
$d_a$ - min.	55 mm
Minimum Buy Quantity	N/A
$D_a$ - max.	110 mm
$D_1$ ?	147.6 mm
$d_2$ ?	97.65 mm
$d_1$ ?	119.6 mm
row type & fill slot:	Single-Row Non-Fill Slot
Calculation factor - X	0.35
Calculation factor - e	1.14
$r_{1,2}$ - min.	3 mm
$r_{3,4}$ - min.	3 mm
Harmonized Tariff Code	8482.10.50.28
Number of Rows of Balls	Single Row
Manufacturer Item Number	7415 BCBM
Basic dynamic load rating C	168 kN
radial static load capacity:	140 kN

radial dynamic load capacity:	168 kN
Basic dynamic load rating - C	168 kN
Maximum Capacity / Filling Slot	No
Calculation factor $Y_0$	0.52
Calculation factor $Y_2$	0.93
Calculation factor $Y_1$	0.55
Calculation factor $k_r$	0.1
Fatigue load limit $P_u$	5.1 kN
Calculation factor - $k_r$	0.1
Calculation factor - $Y_0$	0.26
Fatigue load limit - $P_u$	5.1 kN
Calculation factor - $Y_1$	
Calculation factor - $Y_2$	0.57
Calculation factor - $k_a$	1.6
Basic static load rating $C_0$	140 kN
Basic static load rating - $C_0$	140 kN