



**Bearing No. 7316 BECBM**

a	72 mm
d	80 mm
D	170 mm
B	39 mm
Noun	Bearing
Bore	3.15 Inch   80 Millimeter
Width	1.535 Inch   39 Millimeter
UNSPSC	31171531
series:	73
Category	Angular Contact Ball Bearing
Enclosure	Open
Snap Ring	No
Size (mm)	170x80x39
Inventory	4.0
Width (mm)	39
Weight / LBS	8.889
maximum rpm:	5000 RPM
Flush Ground	Yes
Mass bearing	3.8 kg
Contact Angle	40 Degree
Cage Material	Brass
closure type:	Open
Product Group	B00308
Inch - Metric	Metric
d <sub>2</sub>	97.07 mm
d <sub>1</sub>	115.2 mm
D <sub>1</sub>	136.75 mm
Other Features	Normal Axial Internal

	Clearance
fillet radius:	2 mm
contact angle:	40 °
overall width:	39 mm
cage material:	Brass
bore diameter:	80 mm
Keyword String	Angular Contact
Bearing number	7316 BECBM
Limiting speed	5000 r/min
finish/coating:	Uncoated
Rolling Element	Ball Bearing
Precision Class	ABEC 3   ISO P6
Reference speed	5000 r/min
Long Description	80MM Bore; 170MM Outside Diameter; 39MM Width; Open; Yes Flush Ground; Ball Bearing; Single Row of Balls; ABEC 3   ISO P6; No Filling Slot; No Snap Ring
Outside Diameter	6.693 Inch   170 Millimeter
Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>
Weight / Kilogram	4.04
precision rating:	ABEC 3 (ISO Class 6)
outside diameter:	170 mm
Manufacturer Name	SKF
outer ring width:	39 mm
d <sub>a</sub> min.	92 mm
Number of Bearings	1 (Single)
Bore Diameter (mm)	170
r <sub>b</sub> max.	1 mm
r <sub>a</sub> max.	2 mm
Internal Clearance	CB

$D_b$ max.	163 mm
$D_a$ max.	158 mm
internal clearance:	C0
Outer Diameter (mm)	80
$r_{1,2}$ min.	2.1 mm
Calculation factor A	0.216
Calculation factor e	1.14
Calculation factor X	0.57
Mounting Arrangement	Universal
$r_{3,4}$ min.	1.1 mm
$r_b$ - max.	1 mm
$r_a$ - max.	2 mm
$D_b$ - max.	163 mm
$d_a$ - min.	92 mm
Minimum Buy Quantity	N/A
$D_a$ - max.	158 mm
$D_1$ ?	136.75 mm
$d_2$ ?	97.07 mm
$d_1$ ?	115.2 mm
row type & fill slot:	Single-Row Non-Fill Slot
Calculation factor - X	0.35
Calculation factor - e	1.14
$r_{1,2}$ - min.	2.1 mm
$r_{3,4}$ - min.	1.1 mm
Harmonized Tariff Code	8482.10.50.28
Number of Rows of Balls	Single Row
Manufacturer Item Number	7316 BECBM
Basic dynamic load rating C	143 kN
radial static load capacity:	118 kN
radial dynamic load	143 kN

capacity:	
Basic dynamic load rating - C	143 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 $P_u$	4.5 kN
Calculation factor - $k_r$	0.1
Calculation factor - $Y_0$	0.26
Fatigue load limit - $P_u$	4.5 kN
Calculation factor - $Y_1$	
Calculation factor - $Y_2$	0.57
Calculation factor - $k_a$	1.6
Basic static load rating $C_0$	118 kN
Basic static load rating - $C_0$	118 kN