



**Bearing No. 7316 BEGAY**

D	170 mm
d	80 mm
B	39 mm
a	72 mm
Bore	3.15 Inch   80 Millimeter
Noun	Bearing
Width	1.535 Inch   39 Millimeter
UNSPSC	31171531
Preload	Light
series:	73
Category	Angular Contact Ball Bearing
Size (mm)	170x80x39
Enclosure	Open
Snap Ring	No
Inventory	0.0
Width (mm)	39
Weight / LBS	8.157
Flush Ground	Yes
Mass bearing	3.8 kg
maximum rpm:	4500 RPM
Product Group	B00308
Inch - Metric	Metric
closure type:	Open
Contact Angle	40 Degree
Cage Material	Brass
D <sub>1</sub>	136.75 mm
d <sub>2</sub>	97.07 mm
d <sub>1</sub>	115.2 mm

cage material:	Brass
Keyword String	Angular Contact
overall width:	39 mm
contact angle:	40 °
fillet radius:	2 mm
bore diameter:	80 mm
Bearing number	7316 BEGAY
Limiting speed	4500 r/min
finish/coating:	Uncoated
Rolling Element	Ball Bearing
Precision Class	ABEC 3   ISO P6
Reference speed	4500 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	3.947
precision rating:	ABEC 3 (ISO Class 6)
outside diameter:	170 mm
outer ring width:	39 mm
Manufacturer Name	SKF
Bore Diameter (mm)	170
r <sub>b</sub> max.	1 mm
r <sub>a</sub> max.	2 mm
D <sub>b</sub> max.	163 mm
D <sub>a</sub> max.	158 mm
d <sub>a</sub> min.	92 mm
Number of Bearings	1 (Single)

Internal Clearance	C0-Medium
Outer Diameter (mm)	80
internal clearance:	C0
$D_a$ - max.	158 mm
Calculation factor A	0.216
$r_{1,2}$ min.	2.1 mm
$d_a$ - min.	92 mm
Minimum Buy Quantity	N/A
Mounting Arrangement	Universal
$r_{3,4}$ min.	1.1 mm
$r_a$ - max.	2 mm
$r_b$ - max.	1 mm
Calculation factor X	0.57
Calculation factor e	1.14
$D_b$ - max.	163 mm
$d_1$ ?	115.2 mm
row type & fill slot:	Single-Row Non-Fill Slot
$D_1$ ?	136.75 mm
$d_2$ ?	97.07 mm
Harmonized Tariff Code	8482.10.50.28
Calculation factor - X	0.35
Calculation factor - e	1.14
$r_{1,2}$ - min.	2.1 mm
$r_{3,4}$ - min.	1.1 mm
Number of Rows of Balls	Single Row
Manufacturer Item Number	7316 BEGAY
Basic dynamic load rating C	135 kN
radial static load capacity:	118 kN
radial dynamic load capacity:	143 kN

Basic dynamic load rating - C	135 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 $P_u$	4.15 kN
Fatigue load limit - $P_u$	4.2 kN
Calculation factor - $k_a$	1.6
Calculation factor - $k_r$	0.1
Calculation factor - $Y_1$	
Calculation factor - $Y_2$	0.57
Calculation factor - $Y_0$	0.26
Basic static load rating $C_0$	110 kN
Basic static load rating - $C_0$	110 kN