



**Bearing No. 7310 BEGBY**

D	110 mm
d	50 mm
B	27 mm
a	47 mm
Noun	Bearing
Bore	1.969 Inch   50 Millimeter
Width	1.063 Inch   27 Millimeter
UNSPSC	31171531
Preload	Medium
series:	73
Category	Angular Contact Ball Bearing
Size (mm)	110x50x27
Enclosure	Open
Snap Ring	No
Inventory	0.0
Width (mm)	27
Weight / LBS	2.425
Flush Ground	Yes
Mass bearing	1.1 kg
maximum rpm:	7500 RPM
Product Group	B00308
Inch - Metric	Metric
closure type:	Open
Contact Angle	40 Degree
Cage Material	Brass
D <sub>1</sub>	88.8 mm
d <sub>2</sub>	61.13 mm
d <sub>1</sub>	73.8 mm

cage material:	Brass
Keyword String	Angular Contact
overall width:	27 mm
contact angle:	40 °
fillet radius:	2 mm
bore diameter:	50 mm
Bearing number	7310 BEGBY
Limiting speed	7500 r/min
finish/coating:	Uncoated
Rolling Element	Ball Bearing
Precision Class	ABEC 3   ISO P6
Reference speed	7500 r/min
Long Description	50MM Bore; 110MM Outside Diameter; 27MM Width; Open; Yes Flush Ground; Ball Bearing; Single Row of Balls; ABEC 3   ISO P6; No Filling Slot; No Snap Ring
Outside Diameter	4.331 Inch   110 Millimeter
Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>
Weight / Kilogram	1.1
precision rating:	ABEC 3 (ISO Class 6)
outside diameter:	110 mm
outer ring width:	27 mm
Manufacturer Name	SKF
Bore Diameter (mm)	110
r <sub>b</sub> max.	1 mm
r <sub>a</sub> max.	2 mm
D <sub>b</sub> max.	104 mm
D <sub>a</sub> max.	99 mm
d <sub>a</sub> min.	61 mm

Number of Bearings	1 (Single)
Internal Clearance	C0-Medium
Outer Diameter (mm)	50
internal clearance:	C0
$D_a$ - max.	99 mm
Calculation factor A	0.0456
$r_{1,2}$ min.	2 mm
$d_a$ - min.	61 mm
Minimum Buy Quantity	N/A
Mounting Arrangement	Universal
$r_{3,4}$ min.	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.	104 mm
$d_1$ ?	73.8 mm
row type & fill slot:	Single-Row Non-Fill Slot
$D_1$ ?	88.8 mm
$d_2$ ?	61.13 mm
Harmonized Tariff Code	8482.10.50.28
Calculation factor - X	0.35
Calculation factor - e	1.14
$r_{1,2}$ - min.	2 mm
$r_{3,4}$ - min.	1 mm
Number of Rows of Balls	Single Row
Manufacturer Item Number	7310 BEGBY
Basic dynamic load rating C	74.1 kN
radial static load capacity:	51 kN
radial dynamic load	74.1 kN

capacity:	
Basic dynamic load rating - C	74.1 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 $P_u$	2.2 kN
Fatigue load limit - $P_u$	2.2 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 $C_0$	51 kN
Basic static load rating - $C_0$	51 kN