



**Bearing No. 7210 BECBY**

a	39 mm
d	50 mm
D	90 mm
B	20 mm
Noun	Bearing
Bore	1.969 Inch   50 Millimeter
Width	0.787 Inch   20 Millimeter
UNSPSC	31171531
series:	72
Category	Angular Contact Ball Bearing
Enclosure	Open
Snap Ring	No
Size (mm)	90x50x20
Inventory	2.0
Width (mm)	20
Weight / LBS	1.082
maximum rpm:	8500 RPM
Flush Ground	Yes
Mass bearing	0.47 kg
Contact Angle	40 Degree
Cage Material	Brass
closure type:	Open
Product Group	B00308
Inch - Metric	Metric
d <sub>1</sub>	65.75 mm
D <sub>1</sub>	75.15 mm
d <sub>2</sub>	57.68 mm

Bearing number	7210 BECBY
bore diameter:	50 mm
Other Features	Normal Axial Internal Clearance
Keyword String	Angular Contact
cage material:	Brass
Limiting speed	8500 r/min
overall width:	20 mm
contact angle:	40 °
fillet radius:	1 mm
Reference speed	8500 r/min
finish/coating:	Uncoated
Rolling Element	Ball Bearing
Precision Class	ABEC 3   ISO P6
Long Description	50MM Bore; 90MM Outside Diameter; 20MM Width; Open; Yes Flush Ground; Ball Bearing; Single Row of Balls; ABEC 3   ISO P6; No Filling Slot; No Snap Ring
Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>
Outside Diameter	3.543 Inch   90 Millimeter
precision rating:	ABEC 3 (ISO Class 6)
outer ring width:	20 mm
Manufacturer Name	SKF
outside diameter:	90 mm
Weight / Kilogram	0.49
r <sub>b</sub> max.	0.6 mm
Bore Diameter (mm)	90
D <sub>a</sub> max.	83 mm
D <sub>b</sub> max.	85.8 mm
r <sub>a</sub> max.	1 mm

d <sub>a</sub> min.	57 mm
Internal Clearance	CB
Number of Bearings	1 (Single)
internal clearance:	C0
Outer Diameter (mm)	50
Calculation factor A	0.015
d <sub>a</sub> - min.	57 mm
r <sub>a</sub> - max.	1 mm
D <sub>b</sub> - max.	85.8 mm
Mounting Arrangement	Universal
Minimum Buy Quantity	N/A
r <sub>1,2</sub> min.	1.1 mm
D <sub>a</sub> - max.	83 mm
r <sub>3,4</sub> min.	0.6 mm
Calculation factor X	0.57
Calculation factor e	1.14
r <sub>b</sub> - max.	0.6 mm
D <sub>1</sub> ?	75.15 mm
d <sub>2</sub> ?	57.68 mm
d <sub>1</sub> ?	65.75 mm
row type & fill slot:	Single-Row Non-Fill Slot
Calculation factor - X	0.35
Calculation factor - e	1.14
r <sub>1,2</sub> - min.	1.1 mm
Harmonized Tariff Code	8482.10.50.28
r <sub>3,4</sub> - min.	0.6 mm
Number of Rows of Balls	Single Row
Manufacturer Item Number	7210 BECBY
Basic dynamic load rating C	41.5 kN
radial static load capacity:	28.5 kN

Basic dynamic load rating - C	37.7 kN
radial dynamic load capacity:	37.7 kN
Maximum Capacity / Filling Slot	No
Calculation factor $k_r$	0.095
Calculation factor $Y_1$	0.55
Calculation factor $Y_2$	0.93
Calculation factor $Y_0$	0.52
Fatigue load limit $P_u$	1.4 kN
Calculation factor - $Y_2$	0.57
Calculation factor - $k_r$	0.095
Calculation factor - $Y_0$	0.26
Calculation factor - $Y_1$	
Fatigue load limit - $P_u$	1.2 kN
Calculation factor - $k_a$	1.4
Basic static load rating $C_0$	33.5 kN
Basic static load rating - $C_0$	28.5 kN