



**Bearing No. 7210 BECBJ**

D	90 mm
d	50 mm
B	20 mm
a	39 mm
Noun	Bearing
Bore	1.969 Inch   50 Millimeter
Width	0.787 Inch   20 Millimeter
UNSPSC	31171531
weight:	1.04 lbs
series:	72
Category	Angular Contact Ball Bearing
Size (mm)	90x50x20
Enclosure	Open
Snap Ring	No
Inventory	0.0
bore type:	Round
Width (mm)	20
Flush Ground	Yes
Mass bearing	0.47 kg
maximum rpm:	9000 rpm
Product Group	B00308
Inch - Metric	Metric
Contact Angle	40 Degree
Cage Material	Steel
closure type:	Open
D <sub>1</sub>	75.15 mm
d <sub>2</sub>	57.68 mm
d <sub>1</sub>	65.75 mm

bore diameter:	50 mm
cage material:	Steel
Keyword String	Angular Contact
contact angle:	40 °
Other Features	Normal Axial Internal Clearance
fillet radius:	1.1 mm
overall width:	20 mm
Bearing number	7210 BECBJ
Limiting speed	8500 r/min
finish/coating:	Uncoated
Rolling Element	Ball Bearing
Precision Class	ABEC 1   ISO P0
Reference speed	8500 r/min
Outside Diameter	3.543 Inch   90 Millimeter
Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>
Long Description	50MM Bore; 90MM Outside Diameter; 20MM Width; Open; Yes Flush Ground; Ball Bearing; Single Row of Balls; ABEC 1   ISO P0; No Filling Slot; No Snap Ring; CB; Steel Cage; 40 Degree; 1 (Single); Universa
Weight / Kilogram	0.502
Manufacturer Name	SKF
bearing material:	Steel
outside diameter:	90 mm
Internal Clearance	CB
Number of Bearings	1 (Single)
r <sub>b</sub> max.	0.6 mm
r <sub>a</sub> max.	1 mm

$D_b$ max.	85.8 mm
$D_a$ max.	83 mm
$d_a$ min.	57 mm
Bore Diameter (mm)	90
Outer Diameter (mm)	50
Minimum Buy Quantity	N/A
$r_a$ - max.	1 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
$d_a$ - min.	57 mm
$D_b$ - max.	85.8 mm
$D_a$ - max.	83 mm
$r_b$ - max.	0.6 mm
Mounting Arrangement	Universal
Calculation factor A	0.014
Calculation factor e	1.14
Calculation factor X	0.57
$d_2$ ?	57.68 mm
$d_1$ ?	65.75 mm
$D_1$ ?	75.15 mm
Calculation factor - X	0.35
$r_{3,4}$ - min.	0.6 mm
$r_{1,2}$ - min.	1.1 mm
Calculation factor - e	1.14
Harmonized Tariff Code	8482.10.50.28
Number of Rows of Balls	Single Row
Manufacturer Item Number	7210 BECBJ
manufacturer upc number:	7316570890150
manufacturer product page:	<a href="#">Click here</a>
Basic dynamic load	40 kN

rating C	
operating temperature range:	257 °F
radial static load capacity:	31 kN
radial dynamic load capacity:	40 kN
Basic dynamic load rating - C	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 $P_u$	1.32 kN
Fatigue load limit - $P_u$	1.2 kN
Calculation factor - $Y_1$	
Calculation factor - $Y_0$	0.26
Calculation factor - $k_a$	1.4
Calculation factor - $k_r$	0.095
Calculation factor - $Y_2$	0.57
Basic static load rating $C_0$	31 kN
Basic static load rating - $C_0$	28.5 kN