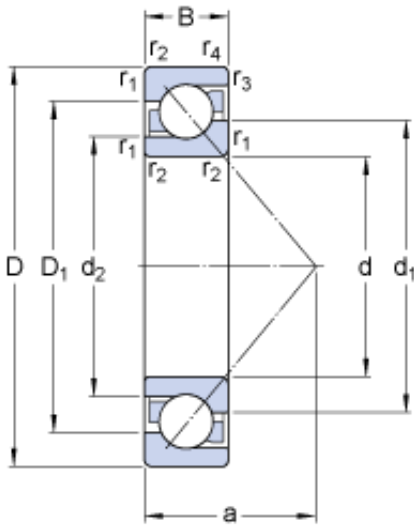




# SNR BEARING CORP.OF AMERICA



55 mm x 100 mm x 21 mm skf 7211 BECBY  
Single row angular contact ball bearings

Bearing No. 7211 BECBY

7211 BECBY Bearing 2D drawings and 3D CAD models

Size	100x55x21 mm
Bore Diameter	100 mm
Outer Diameter	55 mm
Width	21 mm
d	55 mm
D	100 mm
B	21 mm
d <sub>1</sub>	72.45 mm
d <sub>2</sub>	63.62 mm
D <sub>1</sub>	83.7 mm
a	43 mm
r <sub>1,2</sub> - min.	1.5 mm
r <sub>3,4</sub> - min.	1 mm
d <sub>a</sub> - min.	64 mm
D <sub>a</sub> - max.	91 mm
D <sub>b</sub> - max.	94 mm
r <sub>a</sub> - max.	1.5 mm
r <sub>b</sub> - max.	1 mm
Basic dynamic load rating - C	48.8 kN
Basic static load rating - C <sub>0</sub>	38 kN
Fatigue load limit - P <sub>u</sub>	1.6 kN
Reference speed	7500 r/min
Limiting speed	7500 r/min
Calculation factor - k <sub>r</sub>	0.095



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Calculation factor - $k_a$	1.4
Calculation factor - e	1.14
Calculation factor - X	0.57
Calculation factor - $Y_0$	0.52
Calculation factor - $Y_1$	0.55
Calculation factor - $Y_2$	0.93
Calculation factor - X	0.35
Calculation factor - $Y_0$	0.26
Calculation factor - $Y_1$	
Calculation factor - $Y_2$	0.57
Category	Angular Contact Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.62
Product Group	B00308
Enclosure	Open
Flush Ground	Yes
Rolling Element	Ball Bearing
Number of Rows of Balls	Single Row
Precision Class	ABEC 3   ISO P6
Maximum Capacity / Filling Slot	No
Snap Ring	No
Cage Material	Brass
Contact Angle	40 Degree
Internal Clearance	CB
Number of Bearings	1 (Single)
Mounting Arrangement	Universal
Inch - Metric	Metric
Long Description	55MM Bore; 100MM



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	Outside Diameter; 21MM Width; Open; Yes Flush Ground; Ball Bearing; Single Row of Balls; ABEC 3   ISO P6; No Filling Slot; No Snap Ring
Other Features	Normal Axial Internal Clearance
Category	Angular Contact Ball Bearing
UNSPSC	31171531
Harmonized Tariff Code	8482.10.50.28
Noun	Bearing
Keyword String	Angular Contact
Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>
Manufacturer Item Number	7211 BECBY
Weight / LBS	1.358
Bore	2.165 Inch   55 Millimeter
Outside Diameter	3.937 Inch   100 Millimeter
Width	0.827 Inch   21 Millimeter
bore diameter:	55 mm
radial static load capacity:	38 kN
outside diameter:	100 mm
cage material:	Brass
overall width:	21 mm
outer ring width:	21 mm
contact angle:	40 °
maximum rpm:	7500 RPM
row type & fill slot:	Single-Row Non-Fill Slot
finish/coating:	Uncoated
internal clearance:	C0
precision rating:	ABEC 3 (ISO Class 6)
closure type:	Open
fillet radius:	1.5 mm



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radial dynamic load capacity:	48.8 kN
series:	72
$d_1$	72.45 mm
$d_2$	63.62 mm
$D_1$	83.3 mm
$r_{1,2}$ min.	1.5 mm
$r_{3,4}$ min.	1 mm
$d_a$ min.	64 mm
$D_a$ max.	91 mm
$D_b$ max.	94 mm
$r_a$ max.	1.5 mm
$r_b$ max.	1 mm
Basic dynamic load rating C	51 kN
Basic static load rating $C_0$	42.5 kN
Fatigue load limit $P_u$	1.8 kN
Calculation factor A	0.0235
Calculation factor $k_r$	0.095
Calculation factor e	1.14
Calculation factor X	0.35
Calculation factor $Y_0$	0.26
Calculation factor $Y_2$	0.57
Calculation factor X	0.57
Calculation factor $Y_0$	0.52
Calculation factor $Y_1$	0.55
Calculation factor $Y_2$	0.93
Mass bearing	0.62 kg