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7220 BECBY Bearing 2D drawings and 3D CAD models

100 mm x 180 mm x 34 mm SKF 7220 BECBY
angular contact ball bearings

Bearing No. 7220 BECBY

Size	180x100x34 mm
Bore Diameter	180 mm
Outer Diameter	100 mm
Width	34 mm
d	100 mm
D	180 mm
B	34 mm
d ₁	130.95 mm
d ₂	115.22 mm
D ₁	150.9 mm
a	76 mm
r _{1,2} - min.	2.1 mm
r _{3,4} - min.	1.1 mm
d _a - min.	112 mm
D _a - max.	168 mm
D _b - max.	173 mm
r _a - max.	2 mm
r _b - max.	1 mm
Basic dynamic load rating - C	135 kN
Basic static load rating - C ₀	122 kN
Fatigue load limit - P _u	4.4 kN
Reference speed	4000 r/min
Limiting speed	4000 r/min
Calculation factor - k _r	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	3.38
EAN	7316576650215
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



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Long Description	100MM Bore; 180MM Outside Diameter; 34MM 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	http://www.skf.com
Manufacturer Item Number	7220 BECBY
Weight / LBS	7.449
Outside Diameter	7.087 Inch 180 Millimeter
Bore	3.937 Inch 100 Millimeter
Width	1.339 Inch 34 Millimeter
bore diameter:	100 mm
radial static load capacity:	122 kN
outside diameter:	180 mm
cage material:	Brass
overall width:	34 mm
outer ring width:	34 mm
contact angle:	40 °
maximum rpm:	4000 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:	2 mm



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radial dynamic load capacity:	135 kN
series:	72
d_1	130.95 mm
d_2	115.22 mm
D_1	150.9 mm
$r_{1,2}$ min.	2.1 mm
$r_{3,4}$ min.	1.1 mm
d_a min.	112 mm
D_a max.	168 mm
D_b max.	173 mm
r_a max.	2 mm
r_b max.	1 mm
Basic dynamic load rating C	143 kN
Basic static load rating C_0	134 kN
Fatigue load limit P_u	4.75 kN
Calculation factor A	0.239
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	3.3 kg