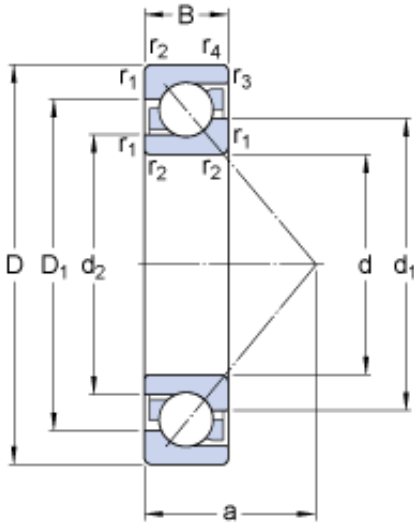




HMSA BEARING MANUFACTURING LIMITED



7316 BECBY Bearing 2D drawings and 3D CAD models

80 mm x 170 mm x 39 mm skf 7316 BECBY
Single row angular contact ball bearings

Bearing No. 7316 BECBY

| | |
|---|--------------|
| Size | 170x80x39 mm |
| Bore Diameter | 170 mm |
| Outer Diameter | 80 mm |
| Width | 39 mm |
| d | 80 mm |
| D | 170 mm |
| B | 39 mm |
| d ₁ | 115.2 mm |
| d ₂ | 97.07 mm |
| D ₁ | 136.75 mm |
| a | 72 mm |
| r _{1,2} - min. | 2.1 mm |
| r _{3,4} - min. | 1.1 mm |
| d _a - min. | 92 mm |
| D _a - max. | 158 mm |
| D _b - max. | 163 mm |
| r _a - max. | 2 mm |
| r _b - max. | 1 mm |
| Basic dynamic load rating - C | 135 kN |
| Basic static load rating - C ₀ | 110 kN |
| Fatigue load limit - P _u | 4.2 kN |
| Reference speed | 4500 r/min |
| Limiting speed | 4500 r/min |
| Calculation factor - k _r | 0.1 |



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| | |
|---------------------------------|-------------------------------|
| Calculation factor - k_a | 1.6 |
| 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 | 2.0 |
| Manufacturer Name | SKF |
| Minimum Buy Quantity | N/A |
| Weight / Kilogram | 3.946 |
| 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 | 80MM Bore; 170MM |



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| | |
|------------------------------|--|
| | Outside Diameter; 39MM 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 | 7316 BECBY |
| Weight / LBS | 8.157 |
| Bore | 3.15 Inch 80 Millimeter |
| Width | 1.535 Inch 39 Millimeter |
| Outside Diameter | 6.693 Inch 170 Millimeter |
| bore diameter: | 80 mm |
| radial static load capacity: | 118 kN |
| outside diameter: | 170 mm |
| cage material: | Brass |
| overall width: | 39 mm |
| outer ring width: | 39 mm |
| contact angle: | 40 ° |
| maximum rpm: | 4500 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: | 143 kN |
| series: | 73 |
| d_1 | 115.2 mm |
| d_2 | 97.07 mm |
| D_1 | 136.75 mm |
| $r_{1,2}$ min. | 2.1 mm |
| $r_{3,4}$ min. | 1.1 mm |
| d_a min. | 92 mm |
| D_a max. | 158 mm |
| D_b max. | 163 mm |
| r_a max. | 2 mm |
| r_b max. | 1 mm |
| Basic dynamic load rating C | 143 kN |
| Basic static load rating C_0 | 118 kN |
| Fatigue load limit P_u | 4.5 kN |
| Calculation factor A | 0.216 |
| Calculation factor k_r | 0.1 |
| 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 | 3.8 kg |