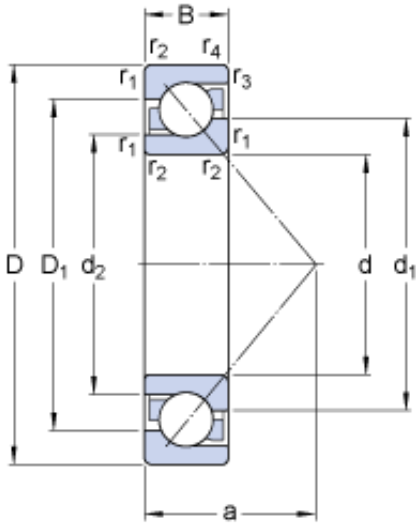




# SNR BEARING CORP.OF AMERICA



7308 BECBP Bearing 2D drawings and 3D CAD models

40 mm x 90 mm x 23 mm skf 7308 BECBP  
Single row angular contact ball bearings

Bearing No. 7308 BECBP

|   |             |
|---|-------------|
| Size                                      | 90x40x23 mm |
| Bore Diameter                             | 90 mm       |
| Outer Diameter                            | 40 mm       |
| Width                                     | 23 mm       |
| d   | 40 mm       |
| D   | 90 mm       |
| B   | 23 mm       |
| d <sub>1</sub>                            | 59.7 mm     |
| d <sub>2</sub>                            | 49.55 mm    |
| D <sub>1</sub>                            | 71.6 mm     |
| a   | 39 mm       |
| r <sub>1,2</sub> - min.                   | 1.5 mm      |
| r <sub>3,4</sub> - min.                   | 1 mm        |
| d <sub>a</sub> - min.                     | 49 mm       |
| D <sub>a</sub> - max.                     | 81 mm       |
| D <sub>b</sub> - max.                     | 84.4 mm     |
| r <sub>a</sub> - max.                     | 1.5 mm      |
| r <sub>b</sub> - max.                     | 1 mm        |
| Basic dynamic load rating - C             | 50 kN       |
| Basic static load rating - C <sub>0</sub> | 32.5 kN     |
| Fatigue load limit - P <sub>u</sub>       | 1.4 kN      |
| Reference speed                           | 10000 r/min |
| Limiting speed                            | 10000 r/min |
| Calculation factor - k <sub>r</sub>       | 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                       | 14.0                          |
| Manufacturer Name               | SKF                           |
| Minimum Buy Quantity            | N/A                           |
| Weight / Kilogram               | 0.61                          |
| 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                   | Polymer                       |
| Contact Angle                   | 40 Degree                     |
| Internal Clearance              | CB                            |
| Number of Bearings              | 1 (Single)                    |
| Mounting Arrangement            | Universal                     |
| Inch - Metric                   | Metric                        |
| Long Description                | 40MM Bore; 90MM               |



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|                              |  |
|------------------------------|--|
|                              | Outside Diameter; 23MM<br>Width; Open; Yes Flush<br>Ground; Ball Bearing; Single<br>Row of Balls; ABEC 3   ISO<br>P6; No Filling Slot; No Snap<br>Ring |
| Other Features               | Normal Axial Internal<br>Clearance   |
| Category                     | Angular Contact Ball<br>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     | 7308 BECBP   |
| Weight / LBS                 | 1.347  |
| Bore                         | 1.575 Inch   40 Millimeter   |
| Width                        | 0.906 Inch   23 Millimeter   |
| Outside Diameter             | 3.543 Inch   90 Millimeter   |
| bore diameter:               | 40 mm  |
| radial static load capacity: | 32.5 kN  |
| outside diameter:            | 90 mm  |
| cage material:               | Nylon  |
| overall width:               | 23 mm  |
| outer ring width:            | 23 mm  |
| contact angle:               | 40 °   |
| maximum rpm:                 | 10000 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:  | 50 kN    |
| series:                        | 73       |
| $d_1$                          | 59.7 mm  |
| $d_2$                          | 49.55 mm |
| $D_1$                          | 71.6 mm  |
| $r_{1,2}$ min.                 | 1.5 mm   |
| $r_{3,4}$ min.                 | 1 mm     |
| $d_a$ min.                     | 49 mm    |
| $D_a$ max.                     | 81 mm    |
| $D_b$ max.                     | 84.4 mm  |
| $r_a$ max.                     | 1.5 mm   |
| $r_b$ max.                     | 1 mm     |
| Basic dynamic load rating C    | 50 kN    |
| Basic static load rating $C_0$ | 32.5 kN  |
| Fatigue load limit $P_u$       | 1.37 kN  |
| Calculation factor A           | 0.0173   |
| 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                   | 0.62 kg  |