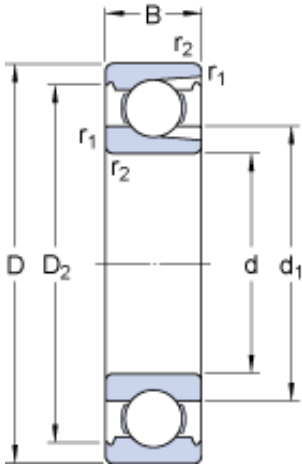




# NTN Bearing Manufacturing



208 Bearing 2D drawings and 3D CAD models

## SKF NJ 208 Ecp Bearing for for Large and Medium-Sized Electric Motor

Bearing No. 208

|   |                          |
|---|--------------------------|
| Size                                      | 80x40x18 mm              |
| Bore Diameter                             | 80 mm                    |
| Outer Diameter                            | 40 mm                    |
| Width                                     | 18 mm                    |
| d   | 40 mm                    |
| D   | 80 mm                    |
| B   | 18 mm                    |
| d <sub>1</sub>                            | 52.6 mm                  |
| D <sub>2</sub>                            | 69.8 mm                  |
| r <sub>1,2</sub> - min.                   | 1.1 mm                   |
| d <sub>a</sub> - min.                     | 47 mm                    |
| D <sub>a</sub> - max.                     | 73 mm                    |
| r <sub>a</sub> - max.                     | 1 mm                     |
| Basic dynamic load rating - C             | 33.6 kN                  |
| Basic static load rating - C <sub>0</sub> | 27 kN                    |
| Fatigue load limit - P <sub>u</sub>       | 1.2 kN                   |
| Reference speed                           | 15000 r/min              |
| Limiting speed                            | 9500 r/min               |
| Calculation factor - k <sub>r</sub>       | 0.04                     |
| Category                                  | Single Row Ball Bearings |
| Inventory                                 | 6.0                      |
| Manufacturer Name                         | SKF                      |
| Minimum Buy Quantity                      | N/A                      |
| Weight / Kilogram                         | 0.37                     |



## NTN Bearing Manufacturing

|                                 |   |
|---------------------------------|---|
| Product Group                   | B00308  |
| Enclosure                       | Open  |
| Precision Class                 | ABEC 1   ISO P0   |
| Maximum Capacity / Filling Slot | Yes   |
| Rolling Element                 | Ball Bearing  |
| Snap Ring                       | No  |
| Internal Special Features       | No  |
| Cage Material                   | Steel   |
| Internal Clearance              | C0-Medium   |
| Inch - Metric                   | Metric  |
| Long Description                | 40MM Bore; 80MM Outside Diameter; 18MM Outer Race Diameter; Open; Ball Bearing; ABEC 1   ISO P0; Yes Filling Slot; No Snap Ring; No Internal Special Features |
| Category                        | Single Row Ball Bearing   |
| UNSPSC                          | 31171504  |
| Harmonized Tariff Code          | 8482.10.50.68   |
| Noun                            | Bearing   |
| Keyword String                  | Ball  |
| Manufacturer URL                | <a href="http://www.skf.com">http://www.skf.com</a>   |
| Manufacturer Item Number        | 208   |
| Weight / LBS                    | 0.81  |
| Outside Diameter                | 3.15 Inch   80 Millimeter   |
| Outer Race Width                | 0.709 Inch   18 Millimeter  |
| Bore                            | 1.575 Inch   40 Millimeter  |
| bore diameter:                  | 40 mm   |
| static load capacity:           | 27 kN   |
| outside diameter:               | 80 mm   |
| precision rating:               | ABEC 3 (ISO Class 6)  |
| overall width:                  | 18 mm   |
|                                 |   |



## NTN Bearing Manufacturing

|                                |   |
|--------------------------------|---|
| finish/coating:                | Uncoated  |
| bore type:                     | Round   |
| cage material:                 | Steel   |
| closure type:                  | Open  |
| outer ring width:              | 18 mm   |
| row type & fill slot:          | Single Row Filling Slot                             |
| fillet radius:                 | 1 mm  |
| snap ring included:            | Without Snap Ring                                   |
| maximum rpm:                   | 9500 RPM  |
| internal clearance:            | C0  |
| series:                        | 20  |
| dynamic load capacity:         | 33.6 kN   |
| thrust application warning:    | This product can not be used in Thrust Applications |
| $d_1$                          | 52.6 mm   |
| $D_2$                          | 69.8 mm   |
| $r_{1,2}$ min.                 | 1.1 mm  |
| $d_a$ min.                     | 47 mm   |
| $D_a$ max.                     | 73 mm   |
| $r_a$ max.                     | 1 mm  |
| Basic dynamic load rating C    | 33.6 kN   |
| Basic static load rating $C_0$ | 27 kN   |
| Fatigue load limit $P_u$       | 1.16 kN   |
| Calculation factor $k_r$       | 0.04  |
| Mass bearing                   | 0.39 kg   |