



17 mm x 35 mm x 10 mm skf 6003 bearing

Bearing No. 6003

6003 Bearing 2D drawings and 3D CAD models

|   |                          |
|---|--------------------------|
| Size                                      | 35x17x10 mm              |
| Bore Diameter                             | 35 mm                    |
| Outer Diameter                            | 17 mm                    |
| Width                                     | 10 mm                    |
| d   | 17 mm                    |
| D   | 35 mm                    |
| B   | 10 mm                    |
| d <sub>1</sub>                            | 23 mm                    |
| D <sub>2</sub>                            | 31.2 mm                  |
| r <sub>1,2</sub> - min.                   | 0.3 mm                   |
| d <sub>a</sub> - min.                     | 19 mm                    |
| D <sub>a</sub> - max.                     | 33 mm                    |
| r <sub>a</sub> - max.                     | 0.3 mm                   |
| Basic dynamic load rating - C             | 6.4 kN                   |
| Basic static load rating - C <sub>0</sub> | 3.2 kN                   |
| Fatigue load limit - P <sub>u</sub>       | 0.137 kN                 |
| Reference speed                           | 45000 r/min              |
| Limiting speed                            | 28000 r/min              |
| Calculation factor - k <sub>r</sub>       | 0.025                    |
| Calculation factor - f <sub>0</sub>       | 14                       |
| Category                                  | Single Row Ball Bearings |
| Inventory                                 | 0.0                      |
| Manufacturer Name                         | SKF                      |
| Minimum Buy Quantity                      | N/A                      |
| Weight / Kilogram                         | 0.041                    |



## PRECISION BEARING CORP.

|                                 |  |
|---------------------------------|--|
| EAN                             | 7316577740038  |
| Product Group                   | B00308   |
| Enclosure                       | Open   |
| Precision Class                 | ABEC 1   ISO P0  |
| Maximum Capacity / Filling Slot | No   |
| Rolling Element                 | Ball Bearing   |
| Snap Ring                       | No   |
| Internal Special Features       | No   |
| Cage Material                   | Steel  |
| Internal Clearance              | C0-Medium  |
| Inch - Metric                   | Metric   |
| Long Description                | 17MM Bore; 35MM Outside Diameter; 10MM Outer Race Diameter; Open; Ball Bearing; ABEC 1   ISO P0; No 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        | 6003   |
| Weight / LBS                    | 0.09   |
| Bore                            | 0.669 Inch   17 Millimeter   |
| Outer Race Width                | 0.394 Inch   10 Millimeter   |
| Outside Diameter                | 1.378 Inch   35 Millimeter   |
| d <sub>1</sub>                  | 23 mm  |
| D <sub>2</sub>                  | 31.2 mm  |
| r <sub>1,2</sub> min.           | 0.3 mm   |
| d <sub>a</sub> min.             | 19 mm  |
|                                 |  |



## PRECISION BEARING CORP.

|                                |          |
|--------------------------------|----------|
| $D_a$ max.                     | 33 mm    |
| $r_a$ max.                     | 0.3 mm   |
| Basic dynamic load rating C    | 6.37 kN  |
| Basic static load rating $C_0$ | 3.25 kN  |
| Fatigue load limit $P_u$       | 0.137 kN |
| Calculation factor $k_r$       | 0.025    |
| Calculation factor $f_0$       | 14       |
| Mass bearing                   | 0.038 kg |