



## Bearing Argentina



16003 Bearing 2D drawings and 3D CAD models

SKF Ball Bearing 16003 16004 16005 16006  
16007 16008 16009

Bearing No. 16003

|   |                          |
|---|--------------------------|
| Size                                      | 35x17x8 mm               |
| Bore Diameter                             | 35 mm                    |
| Outer Diameter                            | 17 mm                    |
| Width                                     | 8 mm                     |
| d   | 17 mm                    |
| D   | 35 mm                    |
| B   | 8 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>       | 0.02                     |
| Calculation factor - f <sub>0</sub>       | 14                       |
| Category                                  | Single Row Ball Bearings |
| Inventory                                 | 0.0                      |
| Manufacturer Name                         | SKF                      |
| Minimum Buy Quantity                      | N/A                      |



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|                                 |   |
|---------------------------------|---|
| Weight / Kilogram               | 0.033   |
| EAN                             | 7316577080387   |
| 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; 8MM 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        | 16003   |
| Weight / LBS                    | 0.073   |
| Outer Race Width                | 0.315 Inch   8 Millimeter   |
| Bore                            | 0.669 Inch   17 Millimeter  |
| Outside Diameter                | 1.378 Inch   35 Millimeter  |
| bore diameter:                  | 17 mm   |
| static load capacity:           | 3.25 kN   |
| outside diameter:               | 35 mm   |
|                                 |   |



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|                                |                          |
|--------------------------------|--------------------------|
| precision rating:              | Not Rated                |
| overall width:                 | 8 mm                     |
| finish/coating:                | Uncoated                 |
| bore type:                     | Round                    |
| cage material:                 | Steel                    |
| closure type:                  | Open                     |
| outer ring width:              | 8 mm                     |
| row type & fill slot:          | Single Row Non-Fill Slot |
| fillet radius:                 | 0.3 mm                   |
| snap ring included:            | Without Snap Ring        |
| maximum rpm:                   | 28000 RPM                |
| internal clearance:            | C0                       |
| series:                        | 16                       |
| dynamic load capacity:         | 6.37 kN                  |
| $d_1$                          | 23 mm                    |
| $D_2$                          | 31.2 mm                  |
| $r_{1,2}$ min.                 | 0.3 mm                   |
| $d_a$ min.                     | 19 mm                    |
| $D_a$ 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 $k_r$       | 0.02                     |
| Calculation factor $f_0$       | 14                       |
| Mass bearing                   | 0.031 kg                 |