

# 16016 SKF r<sub>1,2</sub> min. 0.6 mm 125x80x14mm Deep groove ball bearings

|   |             |
|---|-------------|
| Bearing number                            | 16016       |
| Size (mm)                                 | 125x80x14   |
| Brand                                     | SKF         |
| Bore Diameter (mm)                        | 125         |
| Outer Diameter (mm)                       | 80          |
| Width (mm)                                | 14          |
| d   | 80 mm       |
| D   | 125 mm      |
| B   | 14 mm       |
| d <sub>1</sub>                            | 95.3 mm     |
| D <sub>1</sub>                            | 109.8 mm    |
| r <sub>1,2</sub> – min.                   | 0.6 mm      |
| d <sub>a</sub> – min.                     | 83.2 mm     |
| D <sub>a</sub> – max.                     | 121 mm      |
| r <sub>a</sub> – max.                     | 0.6 mm      |
| Basic dynamic load rating – C             | 35.1 kN     |
| Basic static load rating – C <sub>0</sub> | 31.5 kN     |
| Fatigue load limit – P <sub>u</sub>       | 1.3 kN      |
| Reference speed                           | 11000 r/min |
| Limiting speed                            | 7000 r/min  |
| Calculation factor – k <sub>r</sub>       | 0.02        |
| Calculation factor – f <sub>0</sub>       | 16.4        |

|                                 |   |
|---------------------------------|---|
| Category                        | Single Row Ball Bearings  |
| BDI Inventory                   | 0.0   |
| Manufacturer Name               | SKF   |
| Minimum Buy Quantity            | N/A   |
| Weight / Kilogram               | 0.632   |
| EAN                             | 7316577015952   |
| Product Group – BDI             | 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                | 80MM Bore; 125MM Outside Diameter; 14MM Outer Race Diameter; Open; Ball Bearing; ABEC 1   ISO P0; No Filling Slot; No Snap Ring; No Internal Special Features |
| Category – BDI                  | 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        | 16016   |
| Weight / LBS                    | 1.391   |

|                                |                             |
|--------------------------------|-----------------------------|
| Outer Race Width               | 0.551 Inch   14 Millimeter  |
| Outside Diameter               | 4.921 Inch   125 Millimeter |
| Bore                           | 3.15 Inch   80 Millimeter   |
| bore diameter:                 | 80 mm                       |
| static load capacity:          | 31.5 kN                     |
| outside diameter:              | 125 mm                      |
| precision rating:              | Not Rated                   |
| overall width:                 | 14 mm                       |
| finish/coating:                | Uncoated                    |
| bore type:                     | Round                       |
| cage material:                 | Steel                       |
| closure type:                  | Open                        |
| outer ring width:              | 14 mm                       |
| row type & fill slot:          | Single Row Non-Fill Slot    |
| fillet radius:                 | 0.6 mm                      |
| snap ring included:            | Without Snap Ring           |
| maximum rpm:                   | 7000 RPM                    |
| internal clearance:            | C0                          |
| series:                        | 16                          |
| dynamic load capacity:         | 35.1 kN                     |
| $d_1 \approx$                  | 95.3 mm                     |
| $D_1 \approx$                  | 109.8 mm                    |
| $r_{1,2} \text{ min.}$         | 0.6 mm                      |
| $d_a \text{ min.}$             | 83.2 mm                     |
| $D_a \text{ max.}$             | 121 mm                      |
| $r_a \text{ max.}$             | 0.6 mm                      |
| Basic dynamic load rating C    | 35.1 kN                     |
| Basic static load rating $C_0$ | 31.5 kN                     |

|                               |         |
|-------------------------------|---------|
| Fatigue load limit $P_u$      | 1.32 kN |
| Calculation factor $k_r$      | 0.02    |
| Calculation factor $f_\theta$ | 16.4    |
| Mass bearing                  | 0.61 kg |