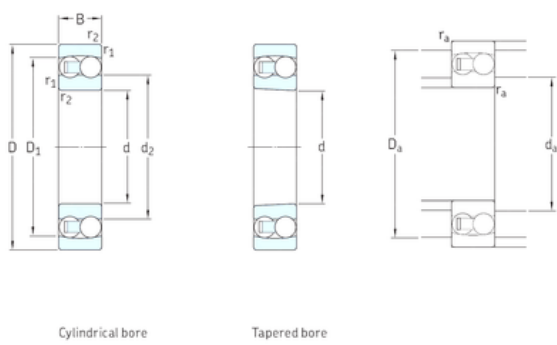




Bearing No. 2303

|                |                                 |
|----------------|---------------------------------|
| C              | 19 mm                           |
| d              | 17 mm                           |
| D              | 47 mm                           |
| B              | 19 mm                           |
| d2             | 25,8 mm                         |
| D1             | 39,4 mm                         |
| Bore           | 0.669 Inch   17 Millimeter      |
| Noun           | Bearing                         |
| Weight         | 0,16 Kg                         |
| UNSPSC         | 31171532                        |
| r2 min.        | 1 mm                            |
| da min.        | 22,6 mm                         |
| Da max.        | 41,4 mm                         |
| ra max.        | 1 mm                            |
| r1 min.        | 1 mm                            |
| Category       | Self Aligning Ball Bearings     |
| Size (mm)      | 17x47x19                        |
| Enclosure      | Open                            |
| Inventory      | 0.0                             |
| Width (mm)     | 19                              |
| Mass bearing   | 0.16 kg                         |
| Product Group  | B00152                          |
| Inch - Metric  | Metric                          |
| Cage Material  | Steel                           |
| Limiting speed | 22000 r/min                     |
| Keyword String | Self Aligning                   |
| Other Features | Allowable Misalignment<br>3 Deg |
| Bearing number | 2303                            |
|                |                                 |

|                         |                                                                                                                                                                                        |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rolling Element         | Ball Bearing                                                                                                                                                                           |
| Mounting Method         | Shaft                                                                                                                                                                                  |
| Reference speed         | 30000 r/min                                                                                                                                                                            |
| Precision Class         | ABEC 1   ISO P0                                                                                                                                                                        |
| Manufacturer URL        | <a href="http://www.skf.com">http://www.skf.com</a>                                                                                                                                    |
| Outer Race Width        | 0.748 Inch   19<br>Millimeter                                                                                                                                                          |
| Outside Diameter        | 1.85 Inch   47 Millimeter                                                                                                                                                              |
| Long Description        | 17MM Bore; Shaft<br>Mount; 47MM Outside<br>Diameter; 19MM Inner<br>Race Width; 19MM<br>Outer Race Width;<br>Open; Steel Cage;<br>Double Row of Balls;<br>ABEC 1   ISO P0;<br>C0-Medium |
| Inner Race Width        | 0.748 Inch   19<br>Millimeter                                                                                                                                                          |
| Manufacturer Name       | SKF                                                                                                                                                                                    |
| Weight / Kilogram       | 0.158                                                                                                                                                                                  |
| $r_a$ max.              | 1 mm                                                                                                                                                                                   |
| $D_a$ max.              | 41.4 mm                                                                                                                                                                                |
| $d_a$ min.              | 22.6 mm                                                                                                                                                                                |
| Bore Diameter (mm)      | 17                                                                                                                                                                                     |
| Internal Clearance      | C0-Medium                                                                                                                                                                              |
| Outer Diameter (mm)     | 47                                                                                                                                                                                     |
| Calculation factor e    | 0.52                                                                                                                                                                                   |
| Minimum Buy Quantity    | N/A                                                                                                                                                                                    |
| $r_{1,2}$ min.          | 1 mm                                                                                                                                                                                   |
| $d_1$ ?                 | 26.15 mm                                                                                                                                                                               |
| $D_1$ ?                 | 37.2 mm                                                                                                                                                                                |
| Calculation factor (e)  | 0,52                                                                                                                                                                                   |
| Harmonized Tariff Code  | 8482.10.50.68                                                                                                                                                                          |
| Number of Rows of Balls | Double Row                                                                                                                                                                             |
|                         |                                                                                                                                                                                        |

|                                         |         |
|-----------------------------------------|---------|
| Calculation factor (Y1)                 | 1,2     |
| Calculation factor (Y0)                 | 1,3     |
| Fatigue load limit (Pu)                 | 0,19    |
| Calculation factor (kr)                 | 0,05    |
| Basic dynamic load rating C             | 14.3 kN |
| Basic dynamic load rating (C)           | 14,3 kN |
| Basic static load rating (C0)           | 3,55 kN |
| Fatigue load limit P <sub>u</sub>       | 0.19 kN |
| Calculation factor k <sub>r</sub>       | 0.05    |
| Calculation factor Y <sub>0</sub>       | 1.3     |
| Calculation factor Y <sub>1</sub>       | 1.2     |
| Calculation factor Y <sub>2</sub>       | 1.9     |
| Permissible angular misalignment ?      | 3 °     |
| Basic static load rating C <sub>0</sub> | 3.55 kN |