



**Bearing No. 21314 E**

|                |                            |
|----------------|----------------------------|
| b              | 6 mm                       |
| K              | 3 mm                       |
| d              | 70 mm                      |
| D              | 150 mm                     |
| B              | 35 mm                      |
| Noun           | Bearing                    |
| Bore           | 2.756 Inch   70 Millimeter |
| Width          | 1.378 Inch   35 Millimeter |
| UNSPSC         | 31171510                   |
| series:        | 213                        |
| Category       | Spherical Roller Bearing   |
| Size (mm)      | 150x70x35                  |
| Enclosure      | Open                       |
| Inventory      | 2.0                        |
| Width (mm)     | 35                         |
| bore type:     | Straight                   |
| maximum rpm:   | 5600 RPM                   |
| Weight / LBS   | 6.979                      |
| Bore Profile   | Straight                   |
| Mass bearing   | 3.1 kg                     |
| Cage Material  | Steel                      |
| closure type:  | Open                       |
| d <sub>2</sub> | 101 mm                     |
| D <sub>1</sub> | 133 mm                     |
| Inch - Metric  | Metric                     |
| Product Group  | B04311                     |
| Limiting speed | 5600 r/min                 |
| fillet radius: | 2 mm                       |
|                |                            |

|                     |   |
|---------------------|---|
| cage material:      | Steel   |
| overall width:      | 35 mm   |
| Keyword String      | Spherical   |
| Withdrawal Nut      | Not Applicable  |
| Relubricatable      | Yes   |
| bore diameter:      | 70 mm   |
| Bearing number      | 21314 E   |
| finish/coating:     | Uncoated  |
| Mounting Method     | Shaft Mount   |
| Rolling Element     | Spherical Roller Bearing  |
| Reference speed     | 4000 r/min  |
| Manufacturer URL    | <a href="http://www.skf.com">http://www.skf.com</a>   |
| outer ring type:    | Not Split   |
| Long Description    | 70MM Straight Bore;<br>150MM Outside Diameter; 35MM Width; C0-Medium Clearance; Shaft Mount; Double Row of Spherical Roller Bearings; Steel Cage Material; Open Enclosure; Relubricatable |
| Outside Diameter    | 5.906 Inch   150 Millimeter   |
| outer ring width:   | 35 mm   |
| precision rating:   | Not Rated   |
| outside diameter:   | 150 mm  |
| Manufacturer Name   | SKF   |
| bearing material:   | Steel   |
| Withdrawal Sleeve   | Not Applicable  |
| Weight / Kilogram   | 3.173   |
| Bore Diameter (mm)  | 150   |
| Internal Clearance  | C0-Medium   |
| r <sub>a</sub> max. | 2 mm  |
|                     |   |

|                                     |   |
|-------------------------------------|---|
| D <sub>a</sub> max.                 | 138 mm  |
| d <sub>a</sub> min.                 | 82 mm   |
| Outer Diameter (mm)                 | 70  |
| internal clearance:                 | C0  |
| Adapter Part Number                 | Not Applicable Inch   Not Applicable Millimeter |
| d <sub>a</sub> - min.               | 82 mm   |
| r <sub>a</sub> - max.               | 2 mm  |
| Calculation factor e                | 0.22  |
| D <sub>a</sub> - max.               | 138 mm  |
| Minimum Buy Quantity                | N/A   |
| r <sub>1,2</sub> min.               | 2.1 mm  |
| D <sub>1</sub> ?                    | 133 mm  |
| d <sub>2</sub> ?                    | 101 mm  |
| static load capacity:               | 325 kN  |
| dynamic load capacity:              | 285 kN  |
| lubrication hole type:              | Lubrication Groove & Hole                       |
| Calculation factor - e              | 0.22  |
| Harmonized Tariff Code              | 84823080  |
| r <sub>1,2</sub> - min.             | 2.1 mm  |
| Number of Rows of Rollers           | Double Row                                      |
| Basic dynamic load rating C         | 291 kN  |
| operating temperature range:        | Maximum of +390 °F                              |
| Basic dynamic load rating - C       | 291 kN  |
| Calculation factor Y <sub>0</sub>   | 2.8   |
| Calculation factor Y <sub>2</sub>   | 4.6   |
| Calculation factor Y <sub>1</sub>   | 3   |
| Fatigue load limit P <sub>u</sub>   | 34.5 kN   |
| Calculation factor - Y <sub>1</sub> | 3   |

|                                     |         |
|-------------------------------------|---------|
| Fatigue load limit - $P_u$          | 34.5 kN |
| Calculation factor - $Y_2$          | 4.6     |
| Calculation factor - $Y_0$          | 2.8     |
| Basic static load rating<br>$C_0$   | 325 kN  |
| Basic static load rating -<br>$C_0$ | 325 kN  |