



**Bearing No. NJ 2310 ECP**

|              |   |
|--------------|---|
| F            | 65 mm   |
| s            | 3.4 mm  |
| d            | 50 mm   |
| D            | 110 mm  |
| B            | 40 mm   |
| Bore         | 1.969 Inch   50 Millimeter                                  |
| Noun         | Bearing   |
| Width        | 1.575 Inch   40 Millimeter                                  |
| s max.       | 3.4 mm  |
| UNSPSC       | 31171547  |
| Profile      | Complete with Outer and Inner Ring                          |
| series:      | NJ23  |
| flanges:     | (2) Outer Ring, (1) Inner Ring                              |
| Retainer     | Yes   |
| Category     | Cylindrical Roller Bearing                                  |
| Separable    | Inner Ring - One Side                                       |
| Size (mm)    | 110x50x40   |
| Inventory    | 0.0   |
| Snap Ring    | No  |
| Width (mm)   | 40  |
| bore type:   | Straight  |
| Bore Profile | Straight  |
| Mass bearing | 1.77 kg   |
| Weight / LBS | 3.986   |
| application: | Piston Type Machines, Rolling Mills, Spindles/Machine Tools |

|                  |  |
|------------------|--|
| maximum rpm:     | 8000 RPM   |
| closure type:    | Open   |
| Product Group    | B04144   |
| Cage Material    | Polymer  |
| Inch - Metric    | Metric   |
| D <sub>1</sub>   | 91.4 mm  |
| d <sub>1</sub>   | 71.2 mm  |
| bore diameter:   | 50 mm  |
| overall width:   | 40 mm  |
| cage material:   | Polyamide  |
| Other Features   | High Capacity   1 Rib Inner Ring   2 Rib Outer Ring   Cage on Outer Ring ID  |
| fillet radius:   | 2 mm   |
| Relubricatable   | Yes  |
| Bearing number   | NJ 2310 ECP  |
| Limiting speed   | 8000 r/min   |
| Rolling Element  | Cylindrical Roller Bearing   |
| Precision Class  | RBEC 1   ISO P0  |
| number of rows:  | 1  |
| finish/coating:  | Uncoated   |
| Reference speed  | 6700 r/min   |
| Manufacturer URL | <a href="http://www.skf.com">http://www.skf.com</a>  |
| Outside Diameter | 4.331 Inch   110 Millimeter  |
| Long Description | 50MM Bore; Straight Bore Profile; 110MM Outside Diameter; 40MM Width; Polymer Cage Material; RBEC 1   ISO P0; Single Row; Inner Ring - One Side Separable; No Snap Ring; Relubricatable; |

|                        |                           |
|------------------------|---------------------------|
|                        | C0-Medium Inte            |
| Limiting value e       | 0.3                       |
| ring separation:       | Separable Ring            |
| precision rating:      | RBEC 1 (ISO Class Normal) |
| bearing material:      | Steel                     |
| outer ring width:      | 40 mm                     |
| Weight / Kilogram      | 1.81                      |
| Manufacturer Name      | SKF                       |
| outside diameter:      | 110 mm                    |
| Bore Diameter (mm)     | 110                       |
| Internal Clearance     | C0-Medium                 |
| $d_a$ min.             | 60 mm                     |
| $d_a$ max.             | 63 mm                     |
| $D_a$ max.             | 99.6 mm                   |
| $r_a$ max.             | 2 mm                      |
| $d_b$ min.             | 73 mm                     |
| Outer Diameter (mm)    | 50                        |
| Axial load factor Y    | 0.4                       |
| internal clearance:    | C0                        |
| $r_{3,4}$ min.         | 2 mm                      |
| $r_{1,2}$ min.         | 2 mm                      |
| $d_a$ - min.           | 60 mm                     |
| $D_a$ - max.           | 99.6 mm                   |
| Minimum Buy Quantity   | N/A                       |
| $r_a$ - max.           | 2 mm                      |
| $d_a$ - max.           | 63 mm                     |
| $d_b$ - min.           | 73 mm                     |
| static load capacity:  | 186 kN                    |
| $d_1$ ?                | 71.2 mm                   |
| $D_1$ ?                | 91.4 mm                   |
| $r_{3,4}$ - min.       | 2 mm                      |
| Harmonized Tariff Code | 8482.50.00.00             |

|   |                    |
|---|--------------------|
| r <sub>1,2</sub> - min.                   | 2 mm               |
| dynamic load capacity:                    | 186 kN             |
| Manufacturer Item Number                  | NJ 2310 ECP        |
| Number of Rows of Rollers                 | Single Row         |
| Basic dynamic load rating C               | 186 kN             |
| operating temperature range:              | Maximum of +300 °F |
| Basic dynamic load rating - C             | 186 kN             |
| Fatigue load limit P <sub>u</sub>         | 24.5 kN            |
| Calculation factor k <sub>r</sub>         | 0.25               |
| Fatigue load limit - P <sub>u</sub>       | 24.5 kN            |
| Calculation factor - k <sub>r</sub>       | 0.25               |
| Basic static load rating C <sub>0</sub>   | 186 kN             |
| Basic static load rating - C <sub>0</sub> | 186 kN             |