



NNU 4924 BK/SPW33 Bearing 2D drawings and 3D CAD models

## 120 mm x 165 mm x 45 mm skf NNU 4924 BK/SPW33 Super-precision cylindrical roller bearings

Bearing No. NNU 4924 BK/SPW33

|   |               |
|---|---------------|
| Size                                      | 120x165x45 mm |
| Bore Diameter                             | 120 mm        |
| Outer Diameter                            | 165 mm        |
| Width                                     | 45 mm         |
| d   | 120 mm        |
| D   | 165 mm        |
| B   | 45 mm         |
| D <sub>1</sub>                            | 150.5 mm      |
| F   | 134.5 mm      |
| b   | 5.5 mm        |
| K   | 3 mm          |
| r <sub>1,2</sub> - min.                   | 1.1 mm        |
| r <sub>3,4</sub> - min.                   | 0.6 mm        |
| s   | 1.1 mm        |
| d <sub>a</sub> - min.                     | 126 mm        |
| d <sub>a</sub> - max.                     | 133 mm        |
| D <sub>a</sub> - max.                     | 158.5 mm      |
| r <sub>a</sub> - max.                     | 1 mm          |
| d <sub>n</sub>                            | 136.8 mm      |
| Basic dynamic load rating - C             | 176 kN        |
| Basic static load rating - C <sub>0</sub> | 340 kN        |
| Fatigue load limit - P <sub>u</sub>       | 37.5 kN       |
| Limiting speed for grease lubrication     | 4800 r/min    |



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|                                    |   |
|------------------------------------|---|
| Limiting speed for oil lubrication | 5300 mm/min   |
| G <sub>ref</sub>                   | 27 cm   |
| Category                           | Cylindrical Roller Bearings   |
| Inventory                          | 0.0   |
| Manufacturer Name                  | SKF   |
| Minimum Buy Quantity               | N/A   |
| Weight / Kilogram                  | 2.78  |
| EAN                                | 7316576611704   |
| Product Group                      | B04270  |
| Bore Profile                       | Tapered   |
| Cage Material                      | Brass   |
| Precision Class                    | Special Precision   |
| Number of Rows of Rollers          | Double Row  |
| Separable                          | Inner Ring - Both Sides   |
| Rolling Element                    | Cylindrical Roller Bearing  |
| Profile                            | Complete with Outer and Inner Ring  |
| Snap Ring                          | No  |
| Internal Clearance                 | C1-Tight  |
| Retainer                           | Yes   |
| Relubricatable                     | Yes   |
| Inch - Metric                      | Metric  |
| Other Features                     | Plain Inner Ring   3 Rib Outer Ring   High Precision Bearing   Modified Internal Design   Cage on Outer Ring ID   |
| Long Description                   | 120MM Bore; Tapered Bore Profile; 165MM Outside Diameter; 45MM Width; Brass Cage Material; Special Precision; Double Row; Inner Ring - Both Sides Separable; No Snap Ring; Relubricatable; C1-Tight Int |



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| Category                                  | Cylindrical Roller Bearing                          |
|---|---|
| UNSPSC                                    | 31171547  |
| Harmonized Tariff Code                    | 8482.50.00.00                                       |
| Noun                                      | Bearing   |
| Manufacturer URL                          | <a href="http://www.skf.com">http://www.skf.com</a> |
| Manufacturer Item Number                  | NNU 4924 BK/SPW33                                   |
| Weight / LBS                              | 6.504   |
| Width                                     | 1.772 Inch   45 Millimeter                          |
| Outside Diameter                          | 6.496 Inch   165 Millimeter                         |
| Bore                                      | 4.724 Inch   120 Millimeter                         |
| $D_1$                                     | 150.5 mm  |
| $r_{1,2}$ min.                            | 1.1 mm  |
| $r_{3,4}$ min.                            | 0.6 mm  |
| s max.                                    | 1.1 mm  |
| $d_a$ min.                                | 126 mm  |
| $d_a$ max.                                | 133 mm  |
| $D_a$ max.                                | 158.5 mm  |
| $d_n$                                     | 136.8 mm  |
| Basic dynamic load rating C               | 176 kN  |
| Basic static load rating $C_0$            | 340 kN  |
| Fatigue load limit $P_u$                  | 37.5 kN   |
| Attainable speed for grease lubrication   | 4800 r/min  |
| Attainable speed for oil-air lubrication  | 5300 r/min  |
| Reference grease quantity $G_{ref}$       | 27 cm <sup>3</sup>                                  |
| Static radial stiffness (guideline value) | 3140 N/ $\mu$ m                                     |
| Mass bearing                              | 2.8 kg  |