



## SKF N 324 ECP

### Single row cylindrical roller bearing, N design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the inner ring and no flanges on the outer ring, N design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

## Technical specifications

| Dimensions                      |        |
|---------------------------------|--------|
| Bore diameter                   | 120 mm |
| Outside diameter                | 260 mm |
| Width                           | 55 mm  |
| Shoulder diameter of inner ring | 168 mm |
| Raceway diameter of outer ring  | 230 mm |
| Chamfer dimension               | 3 mm   |
| Chamfer dimension               | 3 mm   |
| Permissible axial displacement  | 3.7 mm |

| Abutment dimensions          |        |
|------------------------------|--------|
| Diameter of spacer sleeve    | 134 mm |
| Diameter of spacer sleeve    | 226 mm |
| Diameter of housing abutment | 235 mm |
| Diameter of housing abutment | 245 mm |
| Radius of fillet             | 2.5 mm |
| Radius of fillet             | 2.5 mm |

| Calculation data          |              |
|---------------------------|--------------|
| SKF performance class     | SKF Explorer |
| Basic dynamic load rating | 610 kN       |
| Basic static load rating  | 620 kN       |
| Fatigue load limit        | 69.5 kN      |
| Reference speed           | 2800 r/min   |
| Limiting speed            | 3200 r/min   |
| Minimum load factor       | 0.12         |
| Limiting value            | 0.2          |
| Calculation factor        | 0.6          |

| Performance               |              |
|---------------------------|--------------|
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| Properties                           |                    |
|--------------------------------------|--------------------|
| Bearing part                         | Complete bearing   |
| Axial displacement capability        | In both directions |
| Number of rows                       | 1                  |
| Locating feature, bearing outer ring | Without            |
| Bore type                            | Cylindrical        |
| Cage                                 | Non-metallic       |
| Number of flanges, outer ring        | 0                  |
| Number of flanges, inner ring        | 2                  |
| Loose flange                         | None               |
| Radial internal clearance            | CN                 |
| Tolerance class                      | Normal             |

|                                             |                           |
|---------------------------------------------|---------------------------|
| Coating                                     | Without                   |
| Sealing                                     | Without                   |
| Lubricant                                   | None                      |
| Relubrication feature                       | Without                   |
| Indicative carbon footprint for new product | 46.1 kg CO <sub>2</sub> e |

| Logistics          |             |
|--------------------|-------------|
| Product net weight | 12.8 kg     |
| eClass code        | 23-05-09-01 |
| UNSPSC code        | 31171505    |

**SKF drawings**