



Image may differ from product. See technical specification for details.

## GE 35 ESX-2LS

**SKF Explorer radial spherical plain bearing, virtually maintenance-free, sealed, metric sizes**

Radial spherical plain bearings are designed to accommodate radial and combined radial and axial loads, and also misalignment. This specific design includes an SKF Explorer steel/steel sliding contact surface combination. They are initially lubricated and have a triple-lip, heavy-duty contact seal on both sides. Compared to conventional steel/steel bearings, they have increased dynamic load ratings.

- Designed for radial and combined radial and axial loads
- Long service life
- Virtually maintenance-free
- Suitable for heavy static or impact loads

## Overview

### Dimensions

|                   |       |
|-------------------|-------|
| Bore diameter     | 35 mm |
| Outside diameter  | 55 mm |
| Width, inner ring | 25 mm |
| Width, outer ring | 20 mm |

### Performance

|                           |              |
|---------------------------|--------------|
| Basic dynamic load rating | 120 kN       |
| Basic static load rating  | 400 kN       |
| SKF performance class     | SKF Explorer |

### Properties

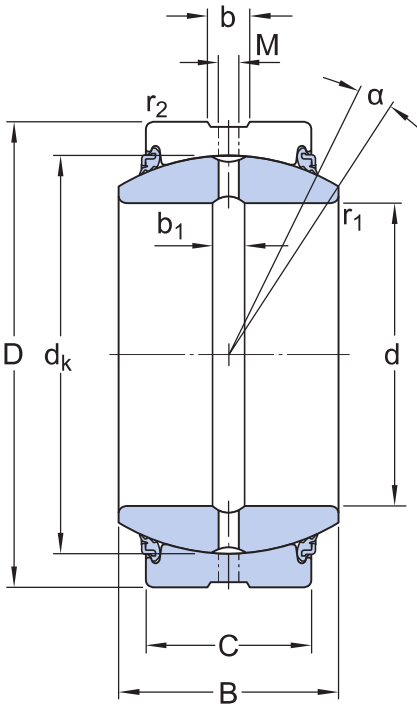
|                                     |                            |
|-------------------------------------|----------------------------|
| Sliding contact surface combination | Steel/steel, SKF Explorer  |
| Material, inner ring                | Bearing steel              |
| Material, outer ring                | Bearing steel              |
| Maintenance                         | Virtually maintenance-free |
| Radial internal clearance           | CN                         |
| Sealing                             | Seal on both sides         |
| Sealing type                        | Triple-tip                 |
| Relubrication feature               | With                       |

### Logistics

|                    |             |
|--------------------|-------------|
| Product net weight | 0.213 kg    |
| eClass code        | 23-05-01-06 |
| UNSPSC code        | 31171515    |

Technical specification

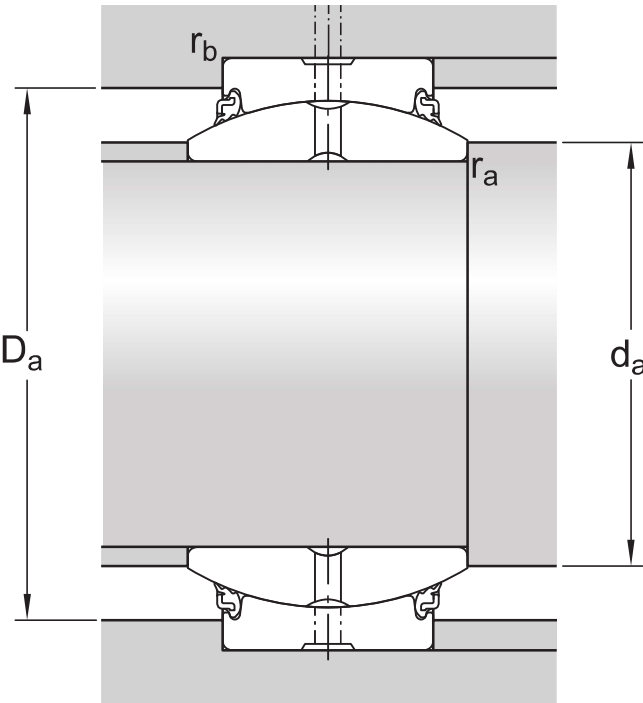
|                                     |                            |
|-------------------------------------|----------------------------|
| Maintenance                         | Virtually maintenance-free |
| Sliding contact surface combination | Steel/steel, SKF Explorer  |
| Material, inner ring                | Bearing steel              |
| Material, outer ring                | Bearing steel              |
| Sealing                             | Seal on both sides         |
| Sealing type                        | Triple-lip                 |



Dimensions

|    |        |                                                |
|----|--------|------------------------------------------------|
| d  | 35 mm  | Bore diameter                                  |
| D  | 55 mm  | Outside diameter                               |
| B  | 25 mm  | Width                                          |
| C  | 20 mm  | Width outer ring                               |
| α  | 6 °    | Angle of tilt                                  |
| dk | 47 mm  | Raceway diameter inner ring                    |
| b  | 3.8 mm | Width annular lubrication groove at outer ring |

|       |             |                                                |
|-------|-------------|------------------------------------------------|
| $b_1$ | 4 mm        | Width annular lubrication groove at inner ring |
| M     | 2.5 mm      | Diameter lubrication hole (outer ring)         |
| $r_1$ | min. 0.6 mm | Chamfer dimension bore                         |
| $r_2$ | min. 1 mm   | Chamfer dimension outer ring                   |



Abutment dimensions

|       |              |                           |
|-------|--------------|---------------------------|
| $d_a$ | min. 38.5 mm | Abutment diameter shaft   |
| $d_a$ | max. 39.8 mm | Abutment diameter shaft   |
| $D_a$ | min. 48.5 mm | Abutment diameter housing |
| $D_a$ | max. 50.9 mm | Abutment diameter housing |
| $r_a$ | max. 0.6 mm  | Fillet radius shaft       |
| $r_b$ | max. 1 mm    | Fillet radius housing     |

Calculation data

|                              |       |                       |
|------------------------------|-------|-----------------------|
| Basic dynamic load rating    | C     | 120 kN                |
| Basic static load rating     | $C_0$ | 400 kN                |
| Specific dynamic load factor | K     | 150 N/mm <sup>2</sup> |

|                             |       |                       |
|-----------------------------|-------|-----------------------|
| Specific static load factor | $K_0$ | 500 N/mm <sup>2</sup> |
| Material constant           | $K_M$ | 330                   |

Tolerances and clearances

- [General bearing specifications](#)

## RADIAL LOCATION OF BEARINGS

- [Recommended fits](#)

More Information

|                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                |                                                                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div> <b>Product details</b></div> <div><a href="#">Radial spherical plain bearings requiring maintenance</a></div> <div><a href="#">Maintenance-free radial spherical plain bearings</a></div> <div><a href="#">General bearing specifications</a></div> <div><a href="#">Temperature limits</a></div> | <div> <b>Engineering information</b></div> <div><a href="#">Principles of selection</a></div> | <div> <b>Tools</b></div> <div><a href="#">SKF Product select</a></div> <div><a href="#">Heater selection tool</a></div> |
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