

**SL184936-A** [↗](#)

## Cylindrical roller bearing

Cylindrical roller bearing SL18..-A, full complement roller set, two-row, semi-locating bearing, 1 rib on outer ring, 3 ribs on inner ring, type SL18

## Technical information

**Your current product variant**

|                           |              |                           |
|---------------------------|--------------|---------------------------|
| Design                    | A            | Internal Variant A        |
| Radial internal clearance | CN (Group N) | Normal internal clearance |
| Tolerance class           | PN           | Normal (ISO 492:2023)     |
| Number of rows            | 2            | Double-row design         |

**Main Dimensions & Performance Data**

|          |             |                                   |
|----------|-------------|-----------------------------------|
| d        | 180 mm      | Bore diameter                     |
| D        | 250 mm      | Outside diameter                  |
| B        | 69 mm       | Width                             |
| $C_r$    | 570.000 N   | Basic dynamic load rating, radial |
| $C_{0r}$ | 1.200.000 N | Basic static load rating, radial  |
| $C_{ur}$ | 149.000 N   | Fatigue load limit, radial        |
| $n_G$    | 1.480 1/min | Limiting speed                    |
| $n_{gr}$ | 920 1/min   | Reference speed                   |
| $m$      | 10,294 kg   | Weight                            |



### Mounting dimensions

|               |          |                                      |
|---------------|----------|--------------------------------------|
| $d_{c \min}$  | 204,5 mm | Minimum shaft shoulder               |
| $d_{a \min}$  | 204,9 mm | Minimum diameter shaft shoulder      |
| $D_{a \max}$  | 223,8 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$  | 2 mm     | Maximum recess radius                |
| $r_{a1 \max}$ | 2 mm     | Maximum recess radius                |
| $D_{e \min}$  | 223,8 mm | Minimum diameter of housing shoulder |

### Dimensions

|              |          |                                 |
|--------------|----------|---------------------------------|
| $r_{\min}$   | 2 mm     | Minimum chamfer dimension       |
| $r_{1 \min}$ | 2 mm     | Minimum chamfer dimension       |
| s            | 3 mm     | Axial displacement              |
| C            | 34,5 mm  | Distance to lubrication hole    |
| $d_1$        | 204,9 mm | Maximum rib diameter inner ring |
| $D_1 \min$   | 223,8 mm | Minimum rib diameter outer ring |
| E            | 230,5 mm | Raceway diameter outer ring     |

### Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -30 °C | Operating temperature min. |
| $T_{\max}$ | 120 °C | Operating temperature max. |

### Characteristics

|   |                             |
|---|-----------------------------|
|  | Radial load                 |
|  | Axial load in one direction |
|  | Grease Lubrication          |
|  | Oil Lubrication             |
|  | Not sealed                  |