

**SL182936-B-XL**

## Cylindrical roller bearing

Cylindrical roller bearing SL18, full complement roller set, single row, semi-locating bearing, 1 rib on outer ring, 2 ribs on inner ring, type SL18

X-life

## Technical information



## Your current product variant

|                           |              |                           |
|---------------------------|--------------|---------------------------|
| Design                    | B            | Internal Variant B        |
| Radial internal clearance | CN (Group N) | Normal internal clearance |
| Tolerance class           | PN           | Normal (PN)               |
| Number of rows            | 1            | Single-row design         |

## Main Dimensions &amp; Performance Data

|             |             |                                   |
|-------------|-------------|-----------------------------------|
| d           | 180 mm      | Bore diameter                     |
| D           | 250 mm      | Outside diameter                  |
| B           | 42 mm       | Width                             |
| $C_r$       | 455.000 N   | Basic dynamic load rating, radial |
| $C_{0r}$    | 680.000 N   | Basic static load rating, radial  |
| $C_{ur}$    | 106.000 N   | Fatigue load limit, radial        |
| $n_G$       | 1.720 1/min | Limiting speed                    |
| $n_{gr}$    | 1.150 1/min | Reference speed                   |
| $\approx m$ | 6,004 kg    | Weight                            |





### Mounting dimensions

|              |          |                                      |
|--------------|----------|--------------------------------------|
| $d_{a \min}$ | 200,7 mm | Minimum diameter shaft shoulder      |
| $d_{c \min}$ | 200,5 mm | Minimum shaft shoulder               |
| $D_{a \max}$ | 224 mm   | Maximum diameter of housing shoulder |
| $D_{e \min}$ | 231,5 mm | Minimum diameter of housing shoulder |
| $r_{a \max}$ | 2 mm     | Maximum recess radius                |
| E            | 231,9 mm | Raceway diameter outer ring          |

### Dimensions

|            |          |                                 |
|------------|----------|---------------------------------|
| $r_{\min}$ | 2 mm     | Minimum chamfer dimension       |
| s          | 2,5 mm   | Axial displacement              |
| $d_1$      | 200,7 mm | Maximum rib diameter inner ring |
| $D_1 \min$ | 224 mm   | Minimum rib 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                  |