

**SL182996-TB**

## Cylindrical roller bearing

Cylindrical roller bearing SL1829..-TB, full complement roller set, single row, semi-locating bearing, 1 rib on outer ring, 2 ribs on inner ring, type SL18

## Technical information



## Your current product variant

|                           |              |   |
|---------------------------|--------------|---|
| Design                    | TB           | Bearings with increased axial load capacity |
| Radial internal clearance | CN (Group N) | Normal internal clearance                   |
| Tolerance class           | PN           | Normal (ISO 492:2023)                       |
| Number of rows            | 1            | Single-row design                           |

## Main Dimensions &amp; Performance Data

|             |             |                                   |
|-------------|-------------|-----------------------------------|
| d           | 480 mm      | Bore diameter                     |
| D           | 650 mm      | Outside diameter                  |
| B           | 100 mm      | Width                             |
| $C_r$       | 2.390.000 N | Basic dynamic load rating, radial |
| $C_{0r}$    | 4.800.000 N | Basic static load rating, radial  |
| $C_{ur}$    | 480.000 N   | Fatigue load limit, radial        |
| $n_G$       | 530 1/min   | Limiting speed                    |
| $n_{gr}$    | 280 1/min   | Reference speed                   |
| $\approx m$ | 92,22 kg    | Weight                            |





### Mounting dimensions

|              |          |                                      |
|--------------|----------|--------------------------------------|
| $d_{a \min}$ | 538 mm   | Minimum diameter shaft shoulder      |
| $d_{c \min}$ | 538 mm   | Minimum shaft shoulder               |
| $D_{a \max}$ | 596,5 mm | Maximum diameter of housing shoulder |
| $D_{e \min}$ | 614,5 mm | Minimum diameter of housing shoulder |
| $r_{a \max}$ | 5 mm     | Maximum recess radius                |
| E            | 614,8 mm | Raceway diameter outer ring          |

### Dimensions

|            |          |                                 |
|------------|----------|---------------------------------|
| $r_{\min}$ | 5 mm     | Minimum chamfer dimension       |
| s          | 7 mm     | Axial displacement              |
| $d_1$      | 538 mm   | Maximum rib diameter inner ring |
| $D_1 \min$ | 596,6 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                  |
|  | Large bearing               |