

**SL183010-A-XL**

Cylindrical roller bearing

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

X-life

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 | 1 | Single-row design |

Main Dimensions & Performance Data

| | | |
|-------------|-------------|-----------------------------------|
| d | 50 mm | Bore diameter |
| D | 80 mm | Outside diameter |
| B | 23 mm | Width |
| C_r | 88.000 N | Basic dynamic load rating, radial |
| C_{0r} | 94.000 N | Basic static load rating, radial |
| C_{ur} | 15.300 N | Fatigue load limit, radial |
| n_G | 6.100 1/min | Limiting speed |
| n_{gr} | 3.700 1/min | Reference speed |
| $\approx m$ | 418,66 g | Weight |





Mounting dimensions

| | | |
|--------------|---------|--------------------------------------|
| $d_{a \min}$ | 59,1 mm | Minimum diameter shaft shoulder |
| $d_{c \min}$ | 59 mm | Minimum shaft shoulder |
| $D_{a \max}$ | 67,5 mm | Maximum diameter of housing shoulder |
| $D_{e \min}$ | 72 mm | Minimum diameter of housing shoulder |
| $r_{a \max}$ | 1 mm | Maximum recess radius |
| E | 72,3 mm | Raceway diameter outer ring |

Dimensions

| | | |
|------------|---------|---------------------------------|
| r_{\min} | 1 mm | Minimum chamfer dimension |
| s | 2 mm | Axial displacement |
| d_1 | 59,1 mm | Maximum rib diameter inner ring |
| $D_1 \min$ | 67,7 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 |