

**SL182944-B-XL-BR-C3**

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 | C3 (Group 3) | Internal clearance larger than CN |
| Tolerance class | PN | Normal (ISO 492:2023) |
| Number of rows | 1 | Single-row design |

Main Dimensions & Performance Data

| | | |
|-------------|-------------|-----------------------------------|
| d | 220 mm | Bore diameter |
| D | 300 mm | Outside diameter |
| B | 48 mm | Width |
| C_r | 650.000 N | Basic dynamic load rating, radial |
| C_{0r} | 1.030.000 N | Basic static load rating, radial |
| C_{ur} | 152.000 N | Fatigue load limit, radial |
| n_G | 1.390 1/min | Limiting speed |
| n_{gr} | 840 1/min | Reference speed |
| $\approx m$ | 9,596 kg | Weight |





Mounting dimensions

| | | |
|--------------|----------|--------------------------------------|
| $d_{a \min}$ | 246,3 mm | Minimum diameter shaft shoulder |
| $d_{c \min}$ | 246 mm | Minimum shaft shoulder |
| $D_{a \max}$ | 273 mm | Maximum diameter of housing shoulder |
| $D_{e \min}$ | 282 mm | Minimum diameter of housing shoulder |
| $r_{a \max}$ | 2,1 mm | Maximum recess radius |
| E | 282,5 mm | Raceway diameter outer ring |

Dimensions

| | | |
|------------|----------|---------------------------------|
| r_{\min} | 2,1 mm | Minimum chamfer dimension |
| s | 3 mm | Axial displacement |
| d_1 | 246,3 mm | Maximum rib diameter inner ring |
| $D_1 \min$ | 273,2 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 |