

**SL182914-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 (ISO 492:2023)
Number of rows	1	Single-row design

Main Dimensions & Performance Data

d	70 mm	Bore diameter
D	100 mm	Outside diameter
B	19 mm	Width
C_r	88.000 N	Basic dynamic load rating, radial
C_{0r}	111.000 N	Basic static load rating, radial
C_{ur}	19.200 N	Fatigue load limit, radial
n_G	4.550 1/min	Limiting speed
n_{gr}	2.550 1/min	Reference speed
$\approx m$	0,47 kg	Weight





Mounting dimensions

$d_{a \min}$	81,2 mm	Minimum diameter shaft shoulder
$d_{c \min}$	81 mm	Minimum shaft shoulder
$D_{a \max}$	87,5 mm	Maximum diameter of housing shoulder
$D_{e \min}$	92 mm	Minimum diameter of housing shoulder
$r_{a \max}$	1 mm	Maximum recess radius
E	92,3 mm	Raceway diameter outer ring

Dimensions

r_{\min}	1 mm	Minimum chamfer dimension
s	1 mm	Axial displacement
d_1	81,2 mm	Maximum rib diameter inner ring
$D_1 \min$	87,8 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