

**SL1818/500-E-TB-BR**

## Cylindrical roller bearing

Cylindrical roller bearing, SL1818..-E-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	500 mm	Bore diameter
D	620 mm	Outside diameter
B	56 mm	Width
$C_r$	980.000 N	Basic dynamic load rating, radial
$C_{0r}$	2.050.000 N	Basic static load rating, radial
$C_{ur}$	200.000 N	Fatigue load limit, radial
$n_G$	540 1/min	Limiting speed
$n_{gr}$	345 1/min	Reference speed
$m$	35 kg	Weight





### Mounting dimensions

$d_{a \min}$	542 mm	Minimum diameter shaft shoulder
$d_{c \min}$	542 mm	Minimum shaft shoulder
$D_{a \max}$	580,5 mm	Maximum diameter of housing shoulder
$D_{e \min}$	594,5 mm	Minimum diameter of housing shoulder
$r_{a \max}$	3 mm	Maximum recess radius
E	594,5 mm	Raceway diameter outer ring

### Dimensions

$r_{\min}$	3 mm	Minimum chamfer dimension
s	5 mm	Axial displacement
$d_1$	542 mm	Maximum rib diameter inner ring
$D_1 \min$	580,5 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