

**SL1818/500-E-TB-C3**

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	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	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	34,98 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