

**SL184944-A** [↗](#)

Cylindrical roller bearing

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

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	2	Double-row design

Main Dimensions & Performance Data

d	220 mm	Bore diameter
D	300 mm	Outside diameter
B	80 mm	Width
C_r	700.000 N	Basic dynamic load rating, radial
C_{0r}	1.550.000 N	Basic static load rating, radial
C_{ur}	185.000 N	Fatigue load limit, radial
n_G	1.220 1/min	Limiting speed
n_{gr}	750 1/min	Reference speed
m	17,25 kg	Weight



Mounting dimensions

$d_{c \text{ min}}$	247,5 mm	Minimum shaft shoulder
$d_{a \text{ min}}$	247,7 mm	Minimum diameter shaft shoulder
$D_{a \text{ max}}$	269 mm	Maximum diameter of housing shoulder
$r_{a \text{ max}}$	2,1 mm	Maximum recess radius
$r_{a1 \text{ max}}$	2,1 mm	Maximum recess radius
$D_{e \text{ min}}$	269 mm	Minimum diameter of housing shoulder

Dimensions

r_{min}	2,1 mm	Minimum chamfer dimension
$r_{1 \text{ min}}$	2,1 mm	Minimum chamfer dimension
s	4 mm	Axial displacement
C	40 mm	Distance to lubrication hole
d_1	247,7 mm	Maximum rib diameter inner ring
$D_1 \text{ min}$	269 mm	Minimum rib diameter outer ring
E	276,52 mm	Raceway 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