

Image may differ from product. See technical specification for details.

P2B 307-SRB-SLH

Pillow block roller bearing unit, inch series

Roller bearing units are robust, ready-to-mount units that are lubricated and sealed at the factory for maximum service life. Pillow (plummer) block units can support rotating shafts while standing on a flat surface, or hanging on a wall or ceiling. Locking on the shaft by set screws is easy and reliable. Optional end covers provide additional protection at shaft ends.

- Factory lubricated and sealed, ready to mount
- Long service life with minimal or no maintenance
- Quick mounting on the support surface, quick locking on the shaft

Overview

Dimensions

Shaft diameter	3.4375 in
Centre height (pillow block)	3.75 in
Housing overall width	3.1875 in
Centre distance between bolt holes	9.6875 in
Attachment bolt diameter	0.875 in
Bearing width, total	4.0313 in

Performance

Basic dynamic load rating	56 900 lbf
Basic static load rating	76 400 lbf
Limiting speed	2 600 r/min

Properties

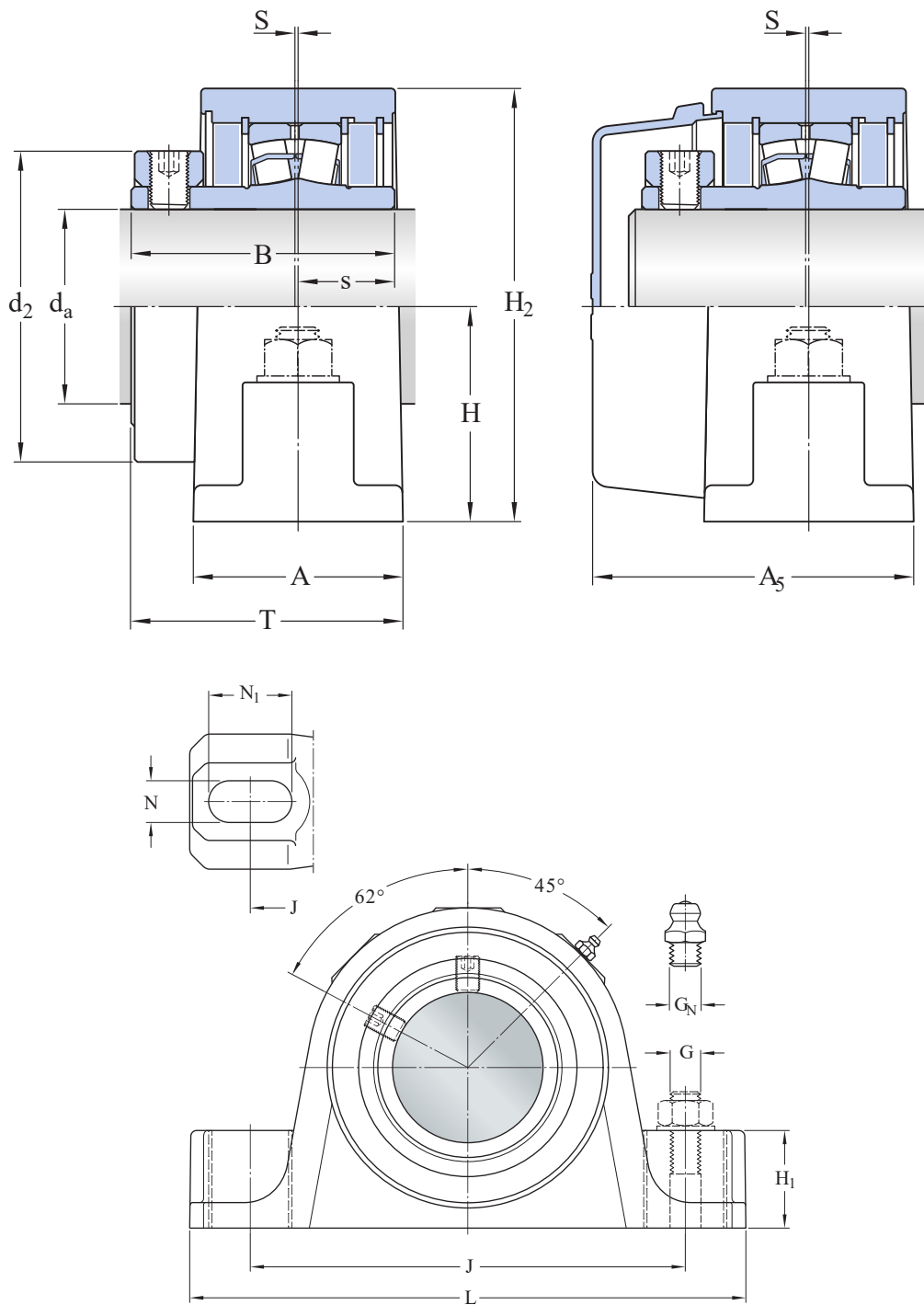
Housing type	Pillow block
Number of bolt holes for fasteners	2
Bearing insert	Spherical roller bearing
Retaining feature, inner ring	Set screws
Bearing position	Locating
Bore type	Cylindrical
Material, housing	Cast iron
Material, bearing	Bearing steel
Coating	Without
Bearing housing seal type	Labyrinth seal
Sealing, unit	Without
Lubricant	Grease
Relubrication hole	With
Grease fitting	With

Logistics

Product net weight	29.8 lb
eClass code	23-05-16-90
UNSPSC code	31171537

Technical specification

Metric/inch series	Inch
Bearing insert	Spherical roller bearing
Bearing position	Locating
Locking method	Set screws
Bearing housing seal type	Labyrinth seal



Dimensions

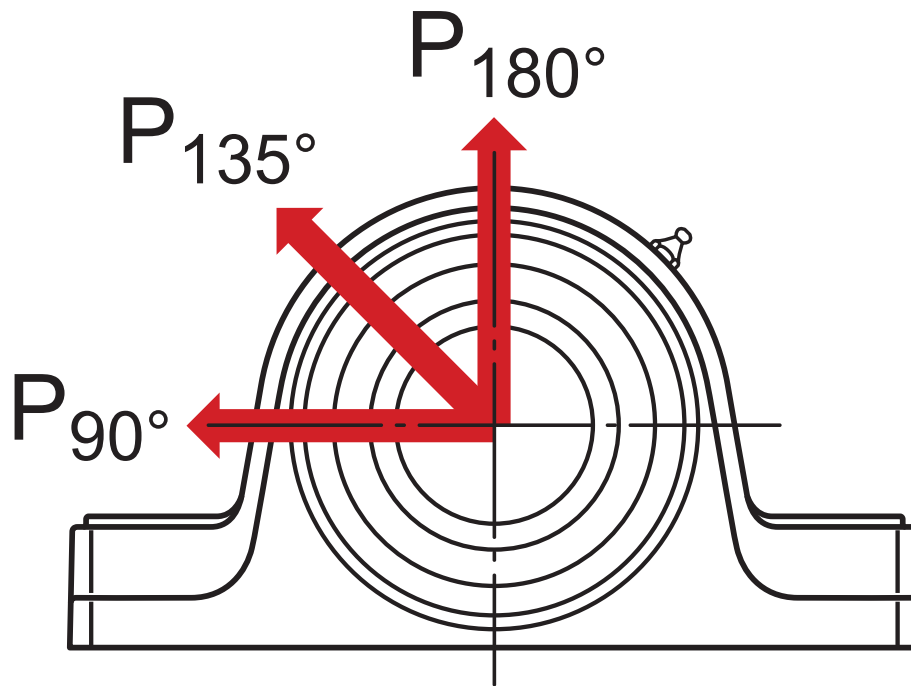
d_a	3.4375 in	Shaft diameter
d_2	5.125 in	Collar outer diameter
A	3.1875 in	Housing foot width
B	4.0313 in	Inner ring width
H	3.75 in	Height base to center
H_1	2.25 in	Housing foot height
H_2	7.5625 in	Housing height
J	min. 9.25 in	Distance of attachment bolts, min.
J	max. 11.125 in	Distance of attachment bolts, max.
J	9.6875 in	Distance of attachment bolts
L	13 in	Housing length
N	1 in	Width of attachment bolt hole
N_1	1.9375 in	Length of attachment bolt hole
s	1.4375 in	Centre line unit to side face of inner ring
S	0.0313 in	Axial displacement
T	4.2188 in	Total width

GREASE FITTING

G_N	1/8-27 NPT	Thread of grease fitting
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Calculation data

Basic dynamic load rating	C	56 900 lbf
Basic static load rating	C_0	76 400 lbf
Fatigue load limit	P_u	8 430 lbf
Limiting speed		2 600 r/min
Limiting value	e	0.31
Calculation factor	Y_1	2.2
Calculation factor	Y_2	3.3
Calculation factor	Y_0	2.2
Bearing mean diameter	d_m	4.92 in
Axial holding force of the locking mechanism	P_a	900 lbf



Safe loads

P_{90°	14 600 lbf	Safe load at 90°
P_{135°	9 200 lbf	Safe load at 135°
P_{180°	11 300 lbf	Safe load at 180°

Mounting information

Attachment bolt diameter	G	0.875 in
Set screws		1/2"-20 UNF-3A x 7/8"
Number of set screws		2
Tightening torque for set screws		620 lbf-in
Grease quantity for relubrication		0.46 oz

Compatible products

Recommended product

End cover for bearing units

[ECY 218](#)

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