

SYNT 65 FTSPillow block roller bearing unit, two-bolt, SKF

ConCentra locking

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Pillow (plummer) block roller bearing units and take-up roller bearing units consist of a spherical or tapered roller bearing mounted in a non-split housing that can be bolted to a support surface. This variant has a spherical roller bearing, a two-bolt base and SKF ConCentra locking, creating a true concentric tight fit, and setting the correct internal clearance within the bearing. The units are sealed and lubricated and ready to use. This bearing unit covers a wide range of requirements, in metric dimensions.

- Ready to mount
- Robust
- Factory lubricated and sealed
- Quick mounting
- Long service life

Overview

Dimensions

Shaft diameter	65 mm
Centre height (pillow block)	80 mm
Housing overall width	80 mm
Centre distance between bolt holes	230 mm
Attachment bolt diameter	16 mm
Bearing width, total	72 mm

Performance

Basic dynamic load rating	193 kN
Basic static load rating	216 kN
Limiting speed	3 800 r/min

Properties

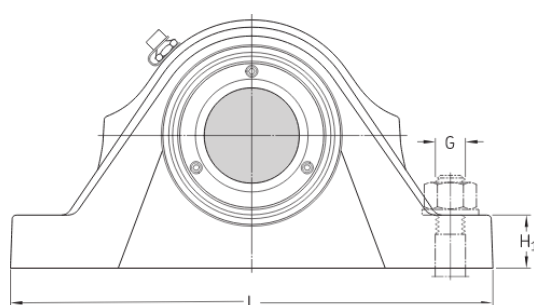
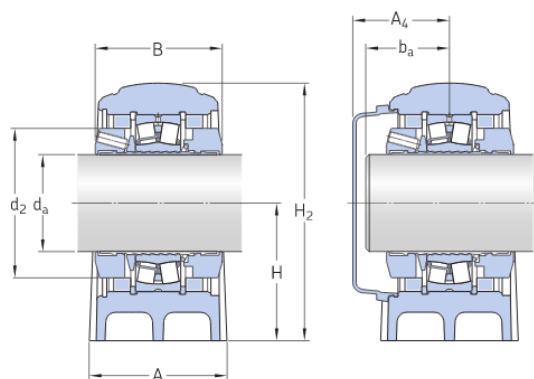
Housing type	Pillow block
Number of bolt holes for fasteners	2
Bearing insert	Spherical roller bearing
Retaining feature, inner ring	SKF ConCentra
Bearing position	Locating

Bore type	Cylindrical
Material, housing	Cast iron
Material, bearing	Bearing steel
Coating	Without
Bearing housing seal type	Labyrinth seal
Sealing, unit	Optional end cover
Lubricant	Grease
Relubrication hole	With
Grease fitting	With

Technical Specification

Metric/inch series	Metric
Bearing insert	Spherical roller bearing
Bearing position	Locating
Locking method	SKF ConCentra
Bearing housing seal type	Labyrinth seal

Dimensions

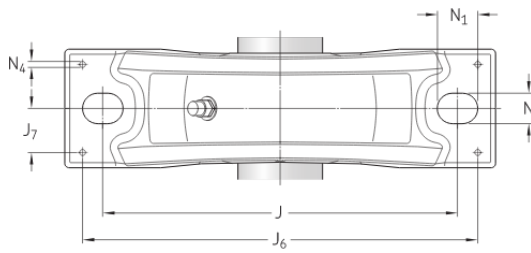


d _a	65 mm	Shaft diameter
d ₂	91 mm	Collar outer diameter
A	80 mm	Housing foot width
B	72 mm	Inner ring width
H	80 mm	Height base to center
H ₁	30 mm	Housing foot height
H ₂	158 mm	Housing height
J	230 mm	Distance of attachment bolts
L	280 mm	Housing length
N	18 mm	Width foot slot width
N ₁	24 mm	Length of attachment bolt hole

Shaft end

A _i	73 mm	Distance bearing centre line to end cover
b _i max.	65 mm	Distance bearing centre line to shaft end
b _i min.	38 mm	Distance bearing centre line to shaft end

Dowel pins

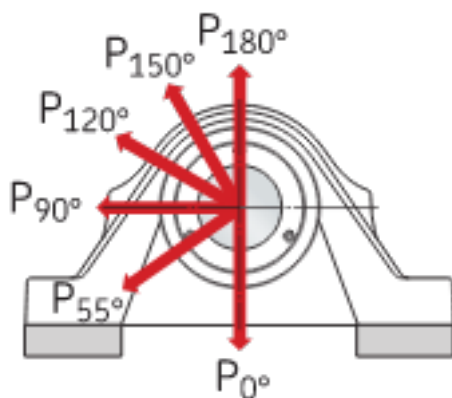


J_6	254 mm	Distance dowel pins
J_7	29 mm	Distance dowel pins
N_4	8 mm	Pin hole diameter

Calculation data

Basic dynamic load rating	C	193 kN
Basic static load rating	C_0	216 kN
Fatigue load limit	P_u	24 kN
Limiting speed		3 800 r/min
Limiting value	e	0.24
Calculation factor	Y_1	2.8
Calculation factor	Y_2	4.2
Calculation factor	Y_0	2.8
Bearing mean diameter	d_m	92.5 mm
Axial holding force of the locking mechanism	P_a	20 kN

Breaking loads



P_{0°	290 kN	Breaking load
P_{55°	380 kN	Breaking load
P_{90°	230 kN	Breaking load
P_{120°	155 kN	Breaking load
P_{150°	140 kN	Breaking load
P_{180°	210 kN	Breaking load

Mass

Mass bearing unit	8.7 kg
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Mounting information

Attachment bolt diameter	G	16 mm
Tightening torque for attachment bolts		200 N·m
Set screws		M6
Number of set screws		4
Tightening torque for set screws		8 N·m
Grease quantity for relubrication		7 g

Associated products

End cover	ECY 213
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