

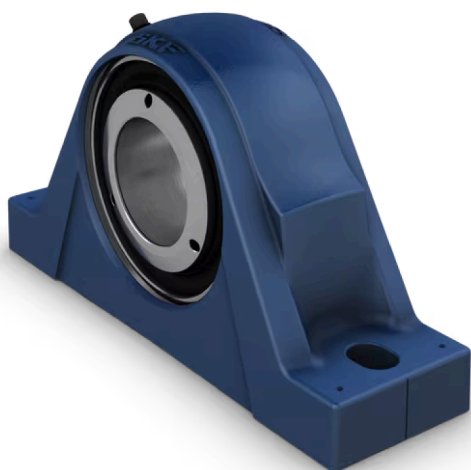


Image may differ from product. See technical specification for details.

SYNT 35 F

Pillow block roller bearing unit, two-bolt, SKF ConCentra locking

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	35 mm
Centre height (pillow block)	60 mm
Housing overall width	60 mm
Centre distance between bolt holes	170 mm
Attachment bolt diameter	12 mm
Bearing width, total	65 mm

Performance

Basic dynamic load rating	86.5 kN
Basic static load rating	85 kN
Limiting speed	4 100 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	Radial lip seal
Sealing, unit	Optional end cover
Lubricant	Grease
Relubrication hole	With
Grease fitting	With

Logistics

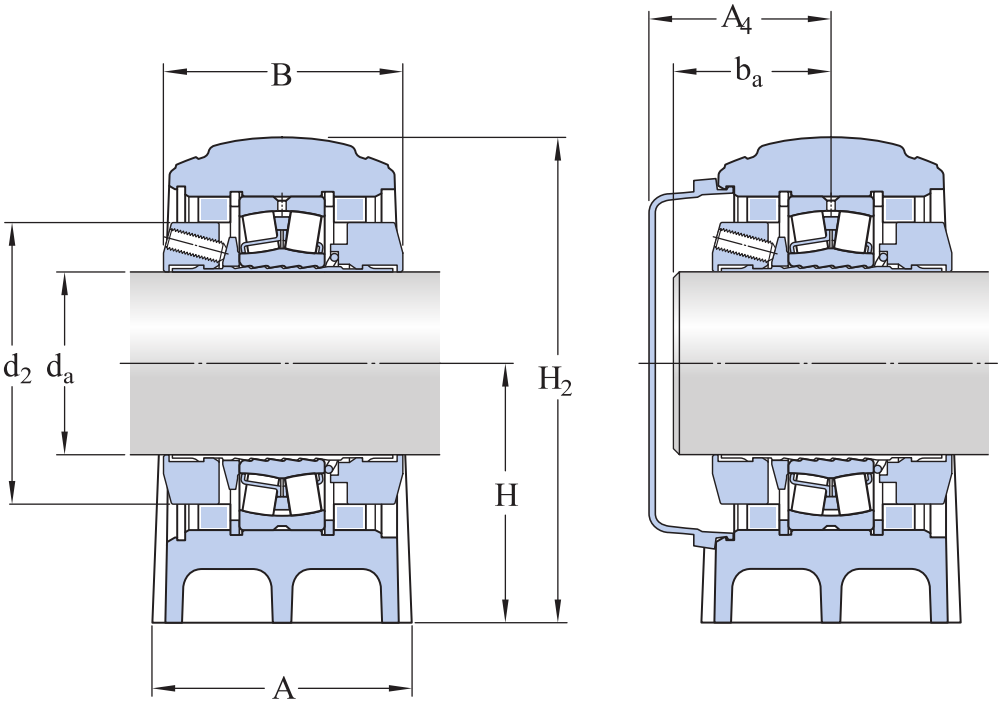
Product net weight	3.85 kg
eClass code	23-05-16-90

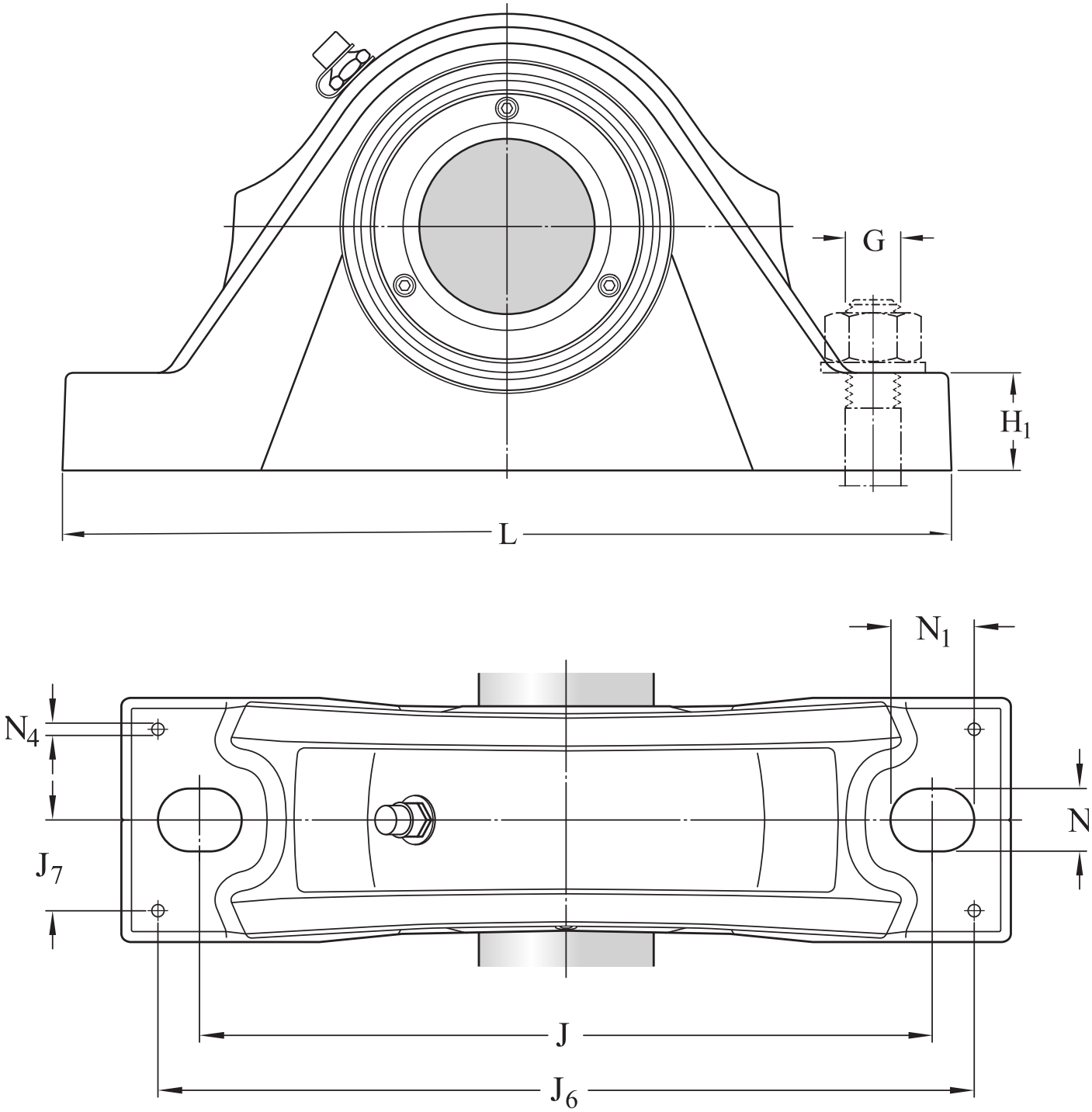
UNSPSC code

31171537

Technical specification

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





Dimensions

d_a	35 mm	Shaft diameter
d_2	61 mm	Collar outer diameter
A	60 mm	Housing foot width
B	65 mm	Inner ring width

H	60 mm	Height base to center
H ₁	25 mm	Housing foot height
H ₂	111 mm	Housing height
J	170 mm	Distance of attachment bolts
L	205 mm	Housing length
N	15 mm	Width foot slot width
N ₁	20 mm	Length of attachment bolt hole

SHAFT END

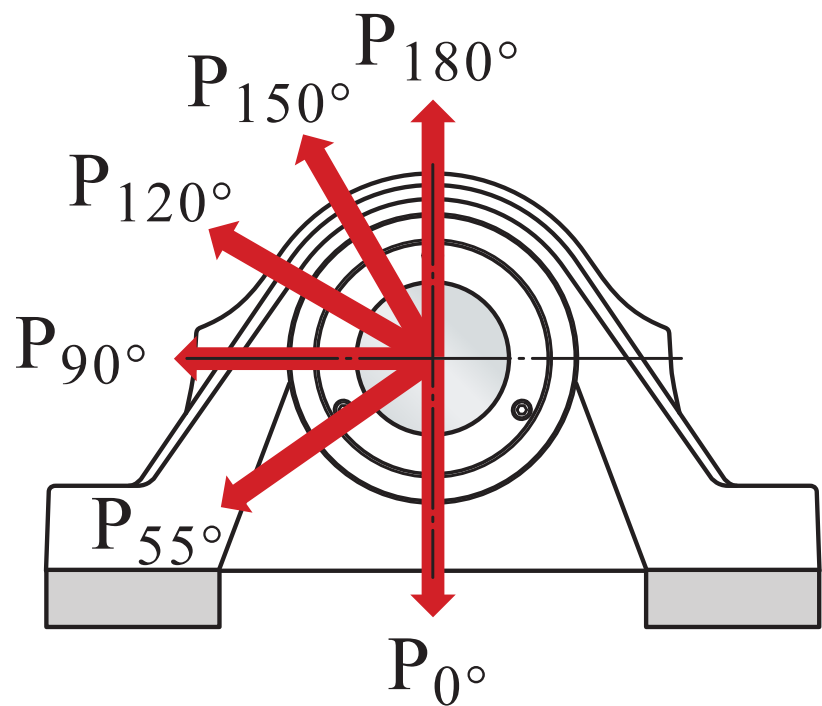
A ₄	50 mm	Distance bearing centre line to end cover
b _a	max. 43 mm	Distance bearing centre line to shaft end
b _a	min. 34 mm	Distance bearing centre line to shaft end

DOWEL PINS

J ₆	185 mm	Distance dowel pins
J ₇	21 mm	Distance dowel pins
N ₄	6 mm	Pin hole diameter

Calculation data

Basic dynamic load rating	C	86.5 kN
Basic static load rating	C ₀	85 kN
Fatigue load limit	P _u	9.3 kN
Limiting speed		4 100 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	53.5 mm
Axial holding force of the locking mechanism	P _a	15 kN



Breaking loads

$P_{0^{\circ}}$	150 kN	Breaking load
$P_{55^{\circ}}$	250 kN	Breaking load
$P_{90^{\circ}}$	150 kN	Breaking load
$P_{120^{\circ}}$	95 kN	Breaking load
$P_{150^{\circ}}$	85 kN	Breaking load
$P_{180^{\circ}}$	105 kN	Breaking load

Mounting information

Attachment bolt diameter	G	12 mm
Tightening torque for attachment bolts		80 N·m
Set screws		M6
Number of set screws		3
Tightening torque for set screws		8 N·m
Grease quantity for relubrication		3 g

Compatible products

Recommended product

End cover for bearing units

[ECY 207](#)

More Information

 Product details Pillow block units - metric series Pillow block units - inch series Permissible misalignment Locating / non-locating support Loads Temperature limits Permissible speed Lubrication Mounting and dismounting Condition Monitoring Associated products Ordering information Designation system for SKF Pillow block roller bearing units	 Engineering information Principles of selecting mounted bearing solutions Bearing failure and how to prevent it	 Engineering tools SKF Product select SKF mounting and dismounting instructions
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