



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

FNL 509 B

FNL cast flanged, non-split housing

FNL cast flanged, non-split housings are well-proven machine parts that provide simple and reliable housing in applications without horizontal frames. They enable the full service life potential of the incorporated bearings to be exploited with less need for maintenance. FNL housings are supplied with a cover either for shaft ends (suffix A) or for through shafts

(suffix B). Smaller sizes (up to and including size 13) have a triangular flange, larger sizes have a square flange.

- Well-proven
- Less need for maintenance

Overview

Dimensions

Diameter of bearing seat	85 mm
Pitch diameter of bolt holes of round and triangle flange type housing	160 mm
Attachment bolt diameter	12 mm

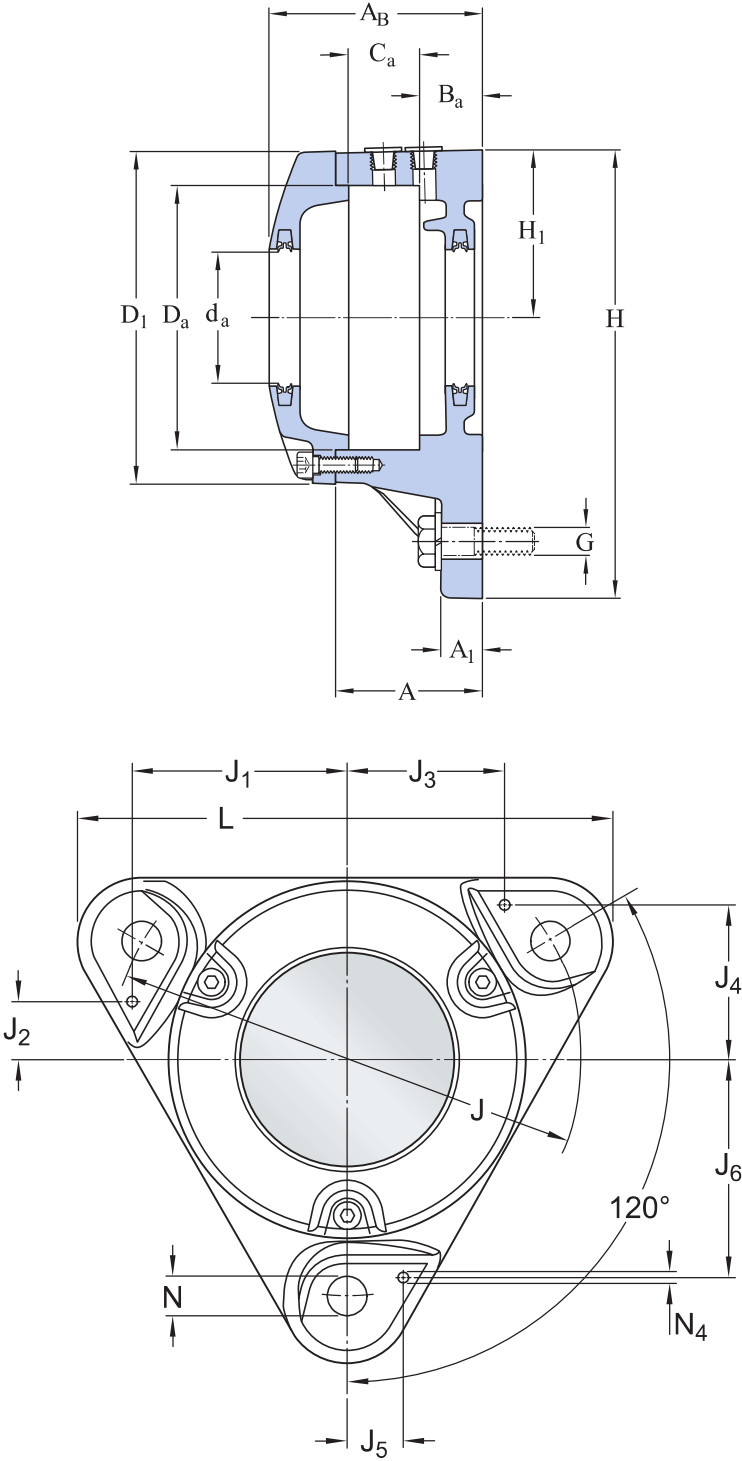
Properties

Housing type	Flanged
Housing configuration	One-piece
Mounting arrangement	Through shaft
Number of bolt holes for fasteners	3
Material, housing	Cast iron
Bearing housing seal type	Lip seal
Housing lubrication feature/possibility	Grease

Logistics

Product net weight	3.24 kg
eClass code	23-05-17-01
UNSPSC code	31171519

Technical specification



Dimensions

BEARING SEAT

D_a	85 mm	Diameter of bearing seat
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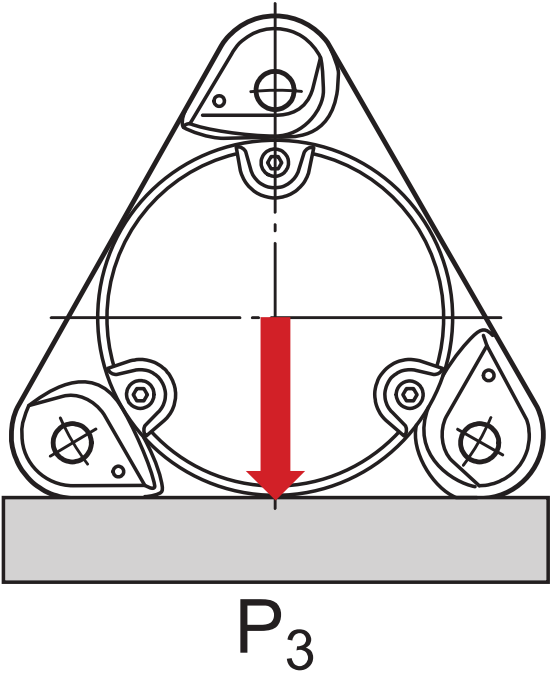
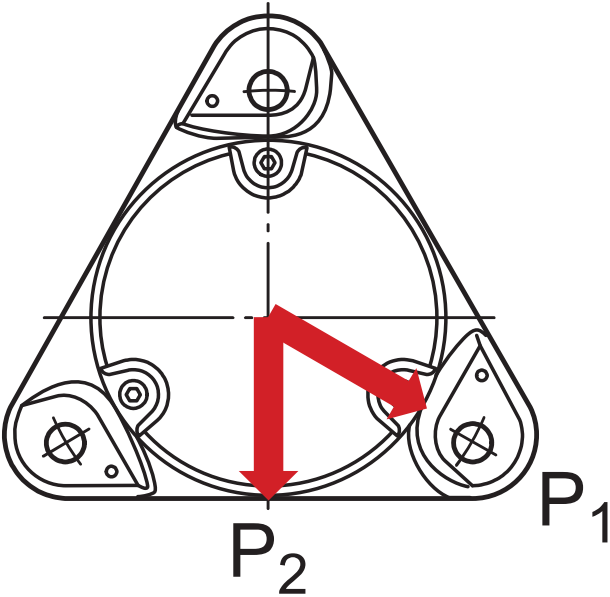
C _a	25 mm	Width of bearing seat
H ₁	60 mm	Centre height of bearing seat
B _a	19 mm	Distance bearing seat to support surface

OUTSIDE DIMENSIONS

d _a	40 mm	Shaft diameter
A	49 mm	Base width
A ₁	12 mm	Foot width
A _B	70.5 mm	Width
D ₁	113 mm	Outside diameter of housing cover
H	160 mm	Height
L	179 mm	Length
J	160 mm	Pitch diameter of attachment bolts
N	14 mm	Diameter of attachment bolt hole

DOWEL PINS

J ₁	71 mm	Position of dowel pin
J ₂	20 mm	Position of dowel pin
J ₃	53 mm	Position of dowel pin
J ₄	52 mm	Position of dowel pin
J ₅	18 mm	Position of dowel pin
J ₆	72 mm	Position of dowel pin
N _{4 max.}	6 mm	Diameter of dowel pins



Breaking loads

P_1	90 kN	Breaking load
P_2	60 kN	Breaking load
P_3	100 kN	Breaking load

Materials

Housing	Cast iron
Corrosion protection	Paint - in accordance with ISO 12944-2, corrosivity category C2

Mounting information

Size of cover bolt	M6x20
Recommended tightening torque for cover bolts	10 N·m
Recommended diameter of attachment bolts	G12 mm
Recommended tightening torque for attachment bolts	80 N·m
Initial grease fill, 20%	17 g
Initial grease fill, 40%	28 g

Included products

Grease fitting	AH 1/8-27 PTF
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Compatible products

Component

Double-lip seal	2 x TFL 509
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More Information

 Designs and variants Standard housing design Housing variants Sealing solutions	 Product details Permissible misalignment Typical shaft-bearing combinations Locating/non-locating support Loads Temperature limits Permissible speed Lubrication Mounting Condition monitoring Associated products Ordering information Designation system	 Tools  SKF Product select - Select and evaluate bearing  SKF Product select - Combine bearing with housing SimPro Quick Tool and Accessory Selector for sleeves and shafts LubeSelect for SKF greases Drive-up Method Program Heater selection tool Oil Injection Method Program
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