



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

UCFB 204

Three-bolt bracket flanged ball bearing unit with set screw locking, cast iron housing, JIS

These three-bolt bracket flanged ball bearing units are compliant with Japanese Industrial Standards (JIS). They consist of an insert bearing, with an extended inner ring and set screw locking, and are suitable for applications where the direction of rotation is constant or alternating. The bearing is mounted in a cast iron housing, which can be bolted to a machine wall or frame. Ball bearing units can accommodate moderate initial misalignment, but normally do not permit axial displacement.

- Resist high levels of contamination
- Designed for high temperatures and speeds
- Accommodate relatively heavy loads
- Cost-effective

Overview

Dimensions

Attachment bolt diameter	0.315 in
Shaft diameter	0.787 in
Housing overall width	1.004 in
Width, total	1.252 in
Bearing width, total	1.22 in

Performance

Basic dynamic load rating	2 855 lbf
Basic static load rating	1 506 lbf
Limiting speed	6 500 r/min
Note	Limiting speed with shaft tolerance h6

Properties

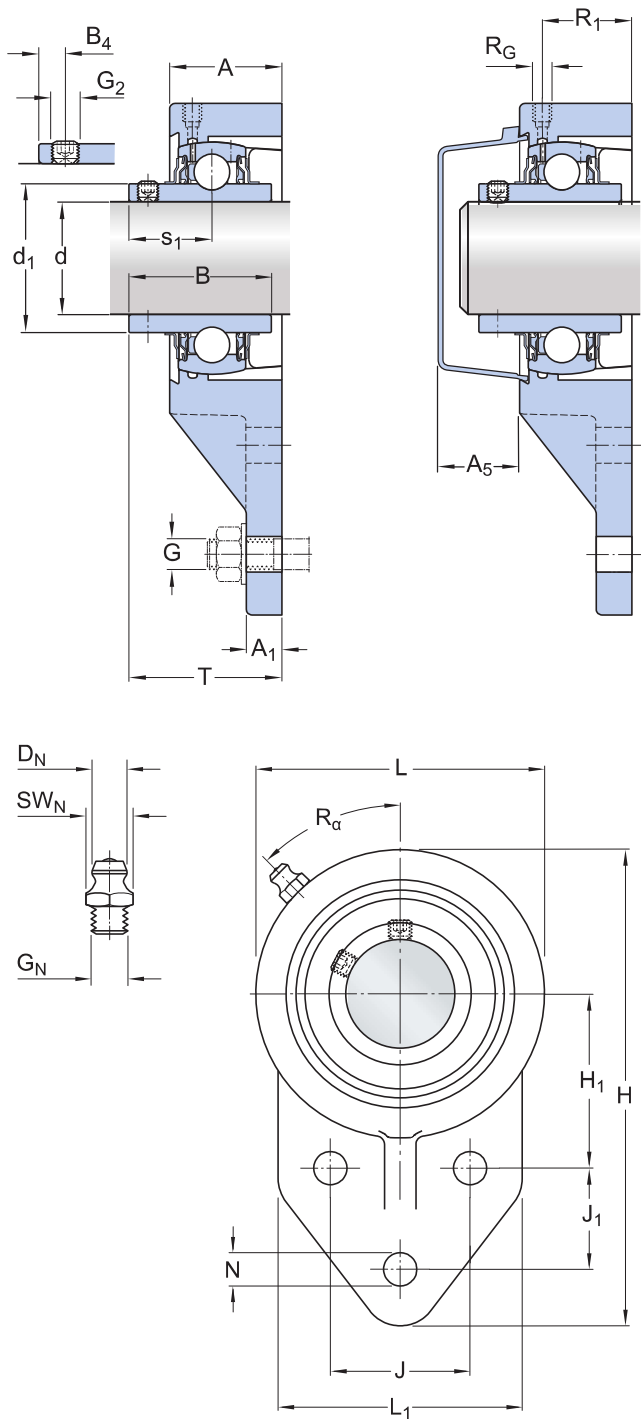
Housing type	Flanged
Flanged housing type	3-bolt bracket
Number of bolt holes for fasteners	3
Fastening bolt hole type	Plain
Retaining feature, inner ring	Set screws
Bore type	Cylindrical
Rubber seating ring	Without
Material, housing	Cast iron
Material, bearing	Bearing steel
Coating	Without
Sealing, bearing	Seal and flinger on both sides
Sealing type	Contact, standard
Sealing, unit	Optional end cover
Lubricant	Grease
Relubrication hole	With
Grease fitting	With

Logistics

Product net weight	1.301 lb
eClass code	23-05-16-02
UNSPSC code	31171536

Technical specification

Compliance with standard	JIS
Purpose specific	For material handling applications
Material, housing	Cast iron
Sealing, bearing	Seal and flinger on both sides
Sealing type, bearing	Contact, standard
Sealing, unit	Optional end cover
Coating	Without



Dimensions

d	0.787 in	Bore diameter
d ₁	≈ 1.13 in	Outer diameter of inner ring
A	1.004 in	Width of housing
A ₁	0.315 in	Flange width
A ₅	0.807 in	Standout of end cover
B	1.22 in	Width of inner ring
B ₄	0.197 in	Distance from locking device side face to thread centre
J	1.26 in	Distance between attachment bolt holes
J ₁	1.063 in	Distance between attachment bolt holes
H	4.409 in	Overall height
H ₁	1.654 in	Radial position of the spherical seat
L	2.52 in	Overall length
L ₁	2.52 in	Flange length
N	0.374 in	Diameter of attachment bolt hole
s ₁	0.72 in	Distance from locking device side face to raceway centre
T	1.252 in	Overall width

THREADED HOLE

R _G	1/4-28 UNF	Housing thread for grease fitting
R ₁	0.63 in	Axial position of the housing thread
R _α	45 °	Angular position of the housing thread

GREASE FITTING

D _N	0.26 in	Diameter of head sphere of grease fitting
G _N	1/4-28 UNF	Thread of grease fitting
SW _N	0.313 in	Hexagonal key size for the grease fitting

Calculation data

Basic dynamic load rating	C	2 855 lbf
Basic static load rating	C ₀	1 506 lbf
Fatigue load limit	P _u	64 lbf
Limiting speed		6 500 r/min
		Limiting speed with shaft tolerance h6

Mounting information

Set screw	G ₂	M6x1
Hexagonal key size for set screw		0.12 in
Recommended tightening torque for set screw		35.403 lbf·in
Recommended diameter for attachment bolts, mm	G	8 mm
Recommended diameter for attachment bolts, inch	G	0.313 in

Tolerances and clearances

The values depend on the included bearing:

- Bore diameter tolerance → [table 1](#)
- Radial internal clearance → [table 2](#)
- Recommended fit → [table 3](#)
- Shaft tolerance → [table 4](#)

Compatible products

Recommended product

End cover for bearing units

[ECY 204](#)

More Information

 Product details	 Engineering information	 Tools
Flanged units to ISO standards		SKF Product select
Flanged units to North American standards	 Principles of ball bearing units selection and application - Download catalogue (4.9 MB)	Bearing Frequency Calculator
Flanged units to Japanese Industrial Standards (JIS)	Principles of selecting mounted bearing solutions	
Flanged units, not standardized (SKF Food Line)	Bearing failure and how to prevent it	
Permissible misalignment		
Locating/non-locating support		
Loads		
Temperature limits		
Permissible speed		
Lubrication		
Mounting and dismounting		
Ordering information		
Designation system		

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