



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

UCF 212/H

Square flanged ball bearing unit with set screw locking, cast iron housing, JIS

These square 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

Shaft diameter	60 mm
Housing overall width	47.5 mm
Width, total	68.7 mm
Centre distance between bolt holes	143 mm
Bearing width, total	65.1 mm

Performance

Basic dynamic load rating	52.7 kN
Basic static load rating	36 kN
Limiting speed	2 700 r/min
Note	Limiting speed with shaft tolerance h6

Properties

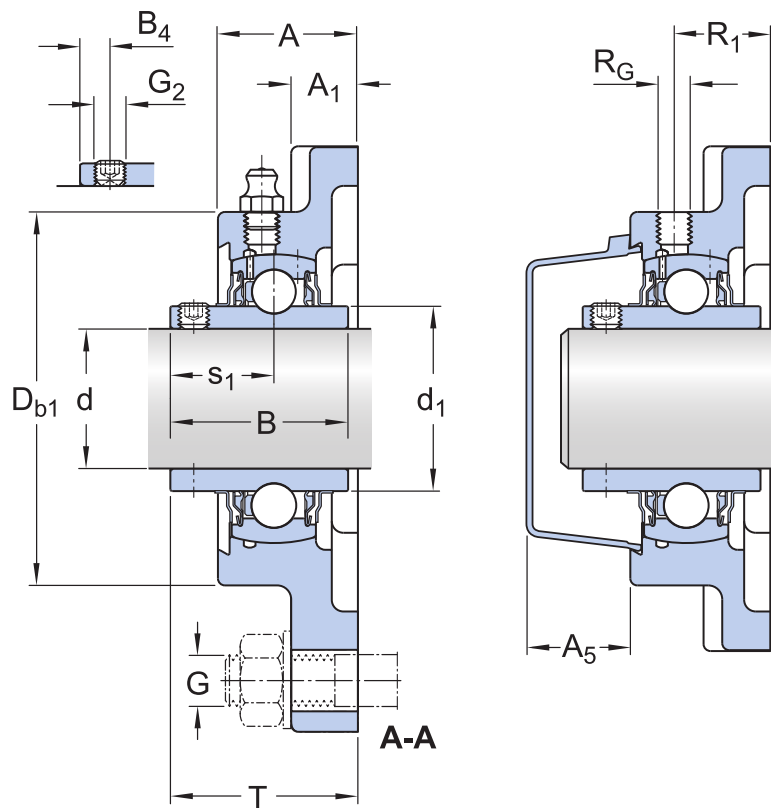
Housing type	Flanged
Flanged housing type	Square
Number of bolt holes for fasteners	4
Fastening bolt hole type	Plain
Retaining feature, inner ring	Set screws
Bore type	Cylindrical
Rubber seating ring	Without
Material, housing	Cast iron
Material, bearing	Bearing steel
Coating	Without
Sealing, bearing	Seal and flinger on both sides
Sealing type	Contact, standard
Sealing, unit	Optional end cover
Lubricant	Grease
Relubrication hole	With
Grease fitting	With

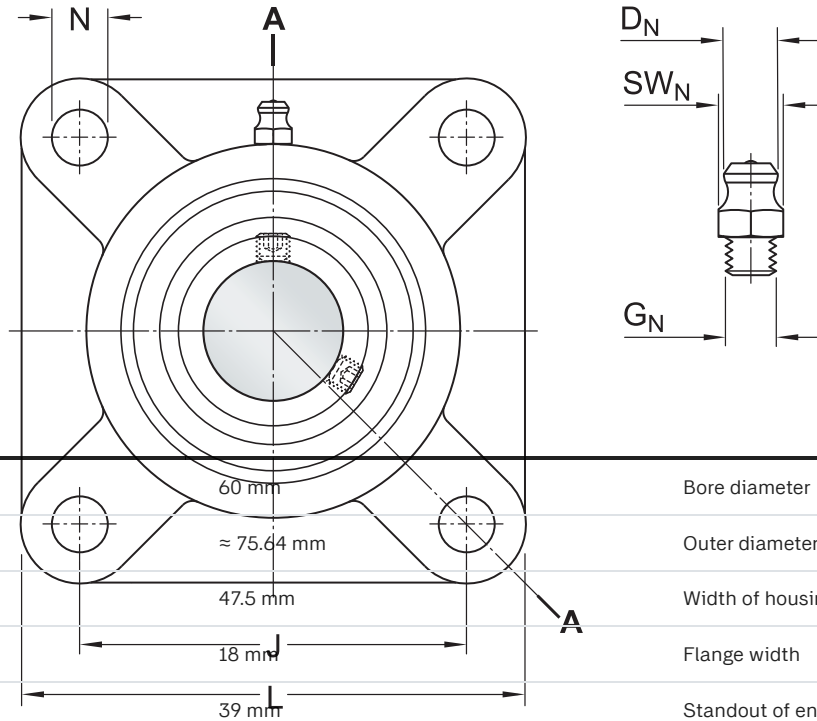
Logistics

Product net weight	3.94 kg
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	60 mm	Bore diameter
d ₁	≈ 75.64 mm	Outer diameter of inner ring
A	47.5 mm	Width of housing
A ₁	18 mm	Flange width
A ₅	39 mm	Standout of end cover
B	65.1 mm	Width of inner ring
B ₄	10 mm	Distance from locking device side face to thread centre
D _{b1}	140 mm	Top external diameter
J	143 mm	Distance between attachment bolts
L	175 mm	Overall length
N	19 mm	Diameter of attachment bolt hole
s ₁	39.7 mm	Distance from locking device side face to raceway centre
T	68.7 mm	Overall width

THREADED HOLE

R _G	1/8-27 NPT	Housing thread for grease fitting
R ₁	33 mm	Axial position of the housing thread

GREASE FITTING

D _N	6.589 mm	Diameter of head sphere of grease fitting
SW _N	11.11 mm	Hexagonal key size for the grease fitting

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

Basic dynamic load rating	C	52.7 kN
Basic static load rating	C ₀	36 kN
Fatigue load limit	P _u	1.53 kN
Limiting speed		2 700 r/min
		Limiting speed with shaft tolerance h ₆

Mass

Mass bearing unit	4.05 kg
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Mounting information

Set screw	G ₂	M10x1
Hexagonal key size for set screw		5 mm
Recommended tightening torque for set screw		16.5 N·m
Recommended diameter for attachment bolts, mm	G	16 mm
Recommended diameter for attachment bolts, inch	G	0.625 in

Compatible products




Spare part

Insert bearing with set screw locking and extended inner ring	YAR 212-2F
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Recommended product

End cover for bearing units	ECY 212
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More Information

 Product details	 Engineering information	 Tools
Flanged units to ISO standards		Bearing Select
Flanged units to North American standards	Principles of ball bearing units selection and application - Download catalogue (4.9 MB)	Engineering Calculator
Flanged units to Japanese Industrial Standards (JIS)	Principles of selecting mounted bearing solutions	Rolling bearings mounting and dismounting instructions
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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