



## UCF 209-28

### Square flanged ball bearing units

## Technical specification

Compliance with standard	JIS
Purpose specific	For material handling applications
Housing material	Cast iron
Sealing solution	Standard seals with additional flingers

## DIMENSIONS

Bore diameter	d	44.45 mm
Outer diameter inner ring	d <sub>1</sub>	≈ 57.3 mm
Overall width	A	38 mm
Flange width	A <sub>1</sub>	16 mm
Standout of end cover	A <sub>5</sub>	26.5 mm
Overall bearing width	B	49.2 mm
Distance from locking device side face to thread centre	B <sub>4</sub>	8 mm
Top external diameter	D <sub>b1</sub>	108 mm
Distance between attachment bolts	J	105 mm
Overall length	L	137 mm
Diameter of attachment bolt hole	N	16 mm
Distance from locking device side face to raceway centre	s <sub>1</sub>	30.2 mm
Overall unit width	T	52.2 mm

## GREASE FITTING

Diameter of head sphere of grease fitting	$D_N$	6.6 mm
Hexagonal key size for the grease fitting	$SW_N$	7.94 mm
Thread of the grease fitting	$G_N$	1/4-28 UNF

## THREADED HOLE

Housing thread for grease fitting	$R_G$	1/4-28 UNF
Axial position of the housing thread	$R_1$	26 mm

## CALCULATION DATA

Basic dynamic load rating	$C$	32.5 kN
Basic static load rating	$C_0$	20.4 kN
Fatigue load limit	$P_u$	0.865 kN
Limiting speed		3400 r/min
with shaft tolerance h6		

## MASS

Mass bearing unit		2.1 kg
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## MOUNTING INFORMATION

Set screw	$G_2$	5/16-24 UNF
Hexagonal key size for set screw	$N$	4.02 mm
Recommended tightening torque for set screw		6.5 N·m
Recommended diameter for attachment bolts, mm	$G$	14 mm
Recommended diameter for attachment bolts, inch	$G$	0.5625 in

## INCLUDED PRODUCTS

Housing	F 209/Y
Bearing	UC 209-28

## ASSOCIATED PRODUCTS

End cover	ECY 209
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## More information

### Product details

[Flanged units to ISO standards](#)

[Flanged units to North American standards](#)

[Flanged units to Japanese Industrial Standards \(JIS\)](#)

[Flanged units, not standardized \(SKF Food Line\)](#)

[Ball bearing unit data](#)

[Loads](#)

[Temperature limits](#)

[Permissible speed](#)

[Lubrication](#)

[Mounting and dismounting](#)

[Designation system](#)

### Engineering information

[Principles of ball bearing units selection and application - Download catalogue \(4.9 MB\)](#)

[Principles of selecting mounted bearing solutions](#)

[Bearing failure and how to prevent it](#)

### Tools

[Bearing Select](#)

[Engineering Calculator](#)

[Rolling bearings mounting and dismounting instructions](#)

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