

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_1	≈ 57.3 mm
Overall width	A	38 mm
Flange width	A_1	16 mm
Standout of end cover	A_5	26.5 mm
Overall bearing width	B	49.2 mm
Distance from locking device side face to thread centre	B_4	8 mm
Top external diameter	D_{b1}	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_1	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

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

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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