

UCF 310

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	50 mm
Outer diameter inner ring	d_1	≈ 69.1 mm
Overall width	A	49.5 mm
Flange width	A_1	20 mm
Overall bearing width	B	61 mm
Distance from locking device side face to thread centre	B_4	12 mm
Top external diameter	D_{b1}	145 mm
Distance between attachment bolts	J	132 mm
Overall length	L	175 mm
Diameter of attachment bolt hole	N	23 mm
Distance from locking device side face to raceway centre	s_1	39 mm
Overall unit width	T	67 mm

GREASE FITTING

Diameter of head sphere of grease fitting	D_N	6.589 mm
Hexagonal key size for the grease fitting	SW_N	11.11 mm
Thread of the grease fitting	G_N	1/8-27 NPT

THREADED HOLE

Housing thread for grease fitting	R_G	1/8-27 NPT
Axial position of the housing thread	R_1	34 mm

CALCULATION DATA

Basic dynamic load rating	C	61.8 kN
Basic static load rating	C_0	38 kN
Fatigue load limit	P_u	1.6 kN
Limiting speed		3400 r/min
with shaft tolerance h6		

MASS

Mass bearing unit	5 kg

MOUNTING INFORMATION

Set screw	G_2	M12x1.5
Hexagonal key size for set screw	N	6.08 mm
Recommended tightening torque for set screw		28.5 N·m
Recommended diameter for attachment bolts, mm	G	20 mm
Recommended diameter for attachment bolts, inch	G	0.75 in

INCLUDED PRODUCTS

Housing	F 310/Y
Bearing	UC 310

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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