UCF 309

Square flanged ball bearing units

Technical specification

Compliance with standard	JIS
Housing material	Cast iron
Sealing solution	Standard seals with additional flingers

DIMENSIONS

Bore diameter	d	45 mm
Outer diameter inner ring	d_1	≈ 63 mm
Overall width	A	46 mm
Flange width	A_1	19 mm
Overall bearing width	B	57 mm
Distance from locking device side face to thread centre	B_4	10 mm
Top external diameter	D_{b1}	130 mm
Distance between attachment bolts	J	125 mm
Overall length	L	162 mm
Diameter of attachment bolt hole	N	19 mm
Distance from locking device side face to raceway centre	s_1	35 mm
Overall unit width	T	60 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

Axial position of the housing thread	R_1	30.5 mm

CALCULATION DATA

Basic dynamic load rating	C	52.7 kN
Basic static load rating	C_0	32 kN
Fatigue load limit	P_u	1.34 kN
Limiting speed		3750 r/min
with shaft tolerance h6		

MASS

Mass bearing unit	3.75 kg

MOUNTING INFORMATION

Set screw	G_2	M10x1.25
Hexagonal key size for set screw	N	5.08 mm
Recommended tightening torque for set screw		16.5 N·m

INCLUDED PRODUCTS

Housing	F 309/Y
Bearing	UC 309

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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