UCF 311

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	55 mm
Outer diameter inner ring	d_1	≈ 76.1 mm
Overall width	A	53 mm
Flange width	A_1	21 mm
Overall bearing width	B	66 mm
Distance from locking device side face to thread centre	B_4	12 mm
Top external diameter	D_{b1}	150 mm
Distance between attachment bolts	J	140 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	41 mm
Overall unit width	T	71 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	37 mm

CALCULATION DATA

Basic dynamic load rating	C	71.5 kN
Basic static load rating	C_0	45 kN
Fatigue load limit	P_u	1.9 kN
Limiting speed		3100 r/min
with shaft tolerance h6		

MASS

Mass bearing unit	5.45 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 311/Y

Bearing UC 311

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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