# UCF 307

## 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 | 35 mm |
| Outer diameter inner ring | $d_1$ | ≈ 50.4 mm |
| Overall width | A | 38 mm |
| Flange width | $A_1$ | 17 mm |
| Overall bearing width | B | 48 mm |
| Distance from locking device side face to thread centre | $B_4$ | 8 mm |
| Top external diameter | $D_{b1}$ | 100 mm |
| Distance between attachment bolts | J | 100 mm |
| Overall length | L | 137 mm |
| Diameter of attachment bolt hole | N | 19 mm |
| Distance from locking device side face to raceway centre | $s_1$ | 29 mm |
| Overall unit width | T | 49 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

| | | |
|---|---|---|
| Axial position of the housing thread | $R_1$ | 25 mm |

## CALCULATION DATA

| | | |
|---|---|---|
| Basic dynamic load rating | C | 33.2 kN |
| Basic static load rating | $C_0$ | 19.3 kN |
| Fatigue load limit | $P_u$ | 0.815 kN |
| Limiting speed | | 4700 r/min |
| with shaft tolerance h6 | | |

## MASS

| | |
|---|---|
| Mass bearing unit | 2.05 kg |

## MOUNTING INFORMATION

| | | |
|---|---|---|
| Set screw | $G_2$ | M8x1 |
| Hexagonal key size for set screw | N | 4.06 mm |
| Recommended tightening torque for set screw | | 6.5 N·m |

## INCLUDED PRODUCTS

| | |
|---|---|
| Housing | F 307/Y |
| Bearing | UC 307 |

## 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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