



## UCF 207-23

### 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	36.512 mm
Outer diameter inner ring	$d_1$	≈ 46.8 mm
Overall width	A	32 mm
Flange width	$A_1$	15 mm
Standout of end cover	$A_5$	24.5 mm
Overall bearing width	B	42.9 mm
Distance from locking device side face to thread centre	$B_4$	6.5 mm
Top external diameter	$D_{b1}$	90 mm
Distance between attachment bolts	J	92 mm
Overall length	L	118 mm
Diameter of attachment bolt hole	N	14 mm
Distance from locking device side face to raceway centre	$s_1$	25.4 mm
Overall unit width	T	44.4 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	$R_1$	22.5 mm

## CALCULATION DATA

Basic dynamic load rating	$C$	25.5 kN
Basic static load rating	$C_0$	15.3 kN
Fatigue load limit	$P_u$	0.655 kN
Limiting speed		4300 r/min
with shaft tolerance h6		

## MASS

Mass bearing unit		1.3 kg
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## 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	$G$	12 mm
Recommended diameter for attachment bolts, inch	$G$	0.5 in

## INCLUDED PRODUCTS

Housing	F 207/Y
Bearing	UC 207-23

## ASSOCIATED PRODUCTS

End cover	ECY 207
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## More information

Product details	Engineering information	Tools
<a href="#">Flanged units to ISO standards</a>	<a href="#">Principles of ball bearing units selection and application - Download catalogue (4.9 MB)</a>	<a href="#">Bearing Select</a>
<a href="#">Flanged units to North American standards</a>	<a href="#">Principles of selecting mounted bearing solutions</a>	<a href="#">Engineering Calculator</a>
<a href="#">Flanged units to Japanese Industrial Standards (JIS)</a>	<a href="#">Bearing failure and how to prevent it</a>	<a href="#">Rolling bearings mounting and dismounting instructions</a>
<a href="#">Flanged units, not standardized (SKF Food Line)</a>		
<a href="#">Ball bearing unit data</a>		
<a href="#">Loads</a>		
<a href="#">Temperature limits</a>		
<a href="#">Permissible speed</a>		
<a href="#">Lubrication</a>		
<a href="#">Mounting and dismounting</a>		
<a href="#">Designation system</a>		

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