



SKF F4BESS 108-CPSS-DFH

Square flanged ball bearing unit with set screw locking, stainless steel housing

These square flanged ball bearing units are designed especially for the food and beverage industries. They consist of an insert bearing, with a narrow inner ring and set screw locking, and are suitable for applications where the direction of rotation is constant or alternating. The bearing is mounted in a stainless steel housing, which can be bolted to a machine wall or frame. Ball bearing units can accommodate moderate initial misalignment, but normally do not permit axial displacement.

Technical specifications

General	
Compliance with standard	Not standardized
Purpose specific	For food and beverage applications
Material, housing	Stainless steel
Sealing, bearing	Seal on both sides and flinger on one side
Sealing type, bearing	Contact, gutter
Sealing, unit	End cover and back seal
Coating	Without

Dimensions	
Bore diameter	38.1 mm
Outer diameter of inner ring	51.8 mm
Width of housing	38.9 mm
Flange width	14.3 mm
Standout of end cover	68.8 mm
Width of inner ring	40.7 mm
Distance from locking device side face to thread centre	10 mm
Diameter of housing centering recess	88 mm
Depth of housing centering recess	5 mm
Centre distance between bolt holes	83 mm
Overall length	110 mm
Diameter of attachment bolt hole	11.5 mm
Distance from locking device side face to raceway centre	30.2 mm
Overall width	53.2 mm
Attachment bolt diameter	9.525 mm
Shaft diameter	38.1 mm
Housing overall width	38.9 mm
Width, total	53.2 mm
Bearing width, total	40.7 mm

Calculation data	
Basic dynamic load rating	24.7 kN
Basic static load rating	19 kN
Fatigue load limit	0.8 kN
Limiting speed	500 r/min

Mounting information	
Set screw	5/16-24 UNF
Hexagonal key size for set screw	3.969 mm
Recommended tightening torque for set screw	6.5 N·m
Recommended diameter for attachment bolts, mm	10 mm
Recommended diameter for attachment bolts, inch	0.375 in

Performance	
Basic dynamic load rating	24.7 kN
Basic static load rating	19 kN
Limiting speed	500 r/min

Properties	
Housing type	Flanged
Flanged housing type	Square
Number of bolt holes for fasteners	4
Fastening bolt hole type	Plain
Retaining feature, inner ring	Set screws
Bore type	Cylindrical
Rubber seating ring	Without
Material, housing	Stainless steel
Material, bearing	Stainless steel
Coating	Without
Sealing, bearing	Seal on both sides and flinger on one side
Sealing type	Contact, gutter
Sealing, unit	End cover and back seal
Lubricant	Grease
Relubrication hole	Without
Grease fitting	Without
Logistics	
Product net weight	1.76 kg
eClass code	23-05-08-02
UNSPSC code	31171536

