



SKF UCF 214

Square flanged ball bearing unit with set screw locking, cast iron housing, JIS

These square flanged ball bearing units are compliant with Japanese Industrial Standards (JIS). They consist of an insert bearing, with an extended 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 cast iron 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	JIS
Purpose specific	For material handling applications
Material, housing	Cast iron
Sealing, bearing	Seal and flinger on both sides
Sealing type, bearing	Contact, standard
Sealing, unit	Optional end cover
Coating	Without

Dimensions	
Bore diameter	70 mm
Outer diameter of inner ring	87 mm
Width of housing	54 mm
Flange width	22 mm
Standout of end cover	41.5 mm
Width of inner ring	74.6 mm
Distance from locking device side face to thread centre	12 mm
Top external diameter	160 mm
Centre distance between bolt holes	152 mm
Overall length	193 mm
Diameter of attachment bolt hole	19 mm
Distance from locking device side face to raceway centre	44.4 mm
Overall width	75.4 mm
Housing thread for grease fitting	1/8-27 NPT
Axial position of the housing thread	35.5 mm
Diameter of head sphere of grease fitting	6.589 mm
Hexagonal key size for the grease fitting	11.11 mm
Thread of grease fitting	1/8-27 NPT
Attachment bolt diameter	16 mm
Shaft diameter	70 mm
Housing overall width	54 mm
Width, total	75.4 mm
Bearing width, total	74.6 mm

Calculation data	
Basic dynamic load rating	62.4 kN
Basic static load rating	44 kN
Fatigue load limit	1.86 kN
Limiting speed	2250 r/min
	Limiting speed with shaft tolerance h6

Mounting information	
Set screw	M12x1.5
Hexagonal key size for set screw	6.08 mm
Recommended tightening torque for set screw	28.5 N·m
Recommended diameter for attachment bolts, mm	16 mm
Recommended diameter for attachment bolts, inch	0.625 in

Performance	
Basic dynamic load rating	62.4 kN
Basic static load rating	44 kN
Limiting speed	2250 r/min
Note	Limiting speed with shaft tolerance h6

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	Cast iron
Material, bearing	Bearing steel
Coating	Without
Sealing, bearing	Seal and flinger on both sides
Sealing type	Contact, standard
Sealing, unit	Optional end cover
Lubricant	Grease
Relubrication hole	With
Grease fitting	With

Logistics	
Product net weight	6.07 kg
eClass code	23-05-16-02
UNSPSC code	31171536

SKF drawings

