

FY 60 LFSquare flanged ball bearing unit with SKF ConCentra locking, cast iron housing, ISO

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These square flanged ball bearing units are compliant with ISO standards. They consist of an insert bearing, with an extended inner ring and SKF ConCentra locking, and are particularly well-suited for applications where there are relatively high speeds and moderate loads, and where vibration, low noise, and minimal maintenance are key operational parameters. 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.

- Resist high levels of contamination
- Designed for high temperatures and speeds
- Accommodate relatively heavy loads
- Cost-effective

Overview

Dimensions

Shaft diameter	60 mm
Housing overall width	52 mm
Width, total	64.5 mm
Centre distance between bolt holes	143 mm
Bearing width, total	51.7 mm

Performance

Basic dynamic load rating	52.7 kN
Basic static load rating	36 kN
Limiting speed	3 400 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	SKF ConCentra ring
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

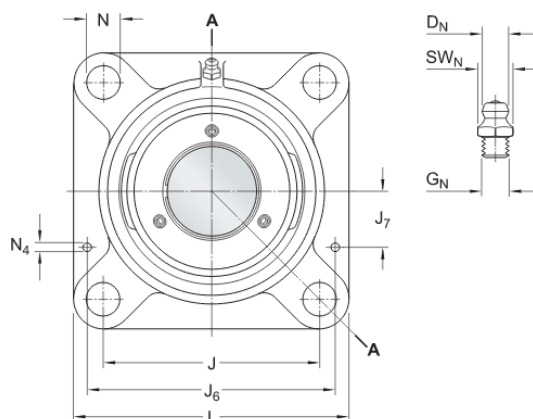
Technical Specification

Compliance with standard	ISO
Purpose specific	For material handling applications, For air 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

d	60 mm	Bore diameter
d_1	≈ 75.64 mm	Outer diameter of inner ring
d_2	83 mm	Outside diameter of locking ring
A	52 mm	Overall width
A_1	17 mm	Flange width
A_3	3.2 mm	Depth of centring recess
A_5	39 mm	Standout of end cover
B	42.5 mm	Width of inner ring
B_1	51.7 mm	Overall bearing width
D_{b1}	130 mm	Top external diameter
D_{b2}	143 mm	Base external diameter
D_c	161.9 mm	Diameter of housing centering recess
J	143 mm	Distance between attachment bolts
L	175 mm	Overall length
N	18 mm	Diameter of attachment bolt hole



s_1	30.5 mm	Distance from locking device side face to raceway centre
T	64.5 mm	Overall unit width

Values specified for B₁₁

Threaded hole

R_G	1/4-28 UNF	Housing thread for grease fitting
R_1	34.5 mm	Axial position of the housing thread

Grease fitting

D_N	6.5 mm	Diameter of head sphere of grease fitting
SW	7 mm	Hexagonal key size for the grease fitting
G_N	1/4-28 SAE-LT	Thread of grease fitting

Dowel pins

J_6	161 mm	Distance of dowel pins
J_7	49.5 mm	Axial offset of dowel pins
N_4	4 mm	Recommended diameter for dowel pins

Calculation data

Basic dynamic load rating	C	52.7 kN
Basic static load rating	C_0	36 kN
Fatigue load limit	P_u	1.53 kN
Limiting speed		3 400 r/min

Mass

Mass bearing unit	3.75 kg
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Mounting information

Set screw	G ₂	M6
Hexagonal key size for set screw		3.05 mm
Recommended tightening torque for set screw		7.4 N·m
Recommended diameter for attachment bolts, mm	G	16 mm
Recommended diameter for attachment bolts, inch	G	0.625 in

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