

FY 60 TF

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

These square flanged ball bearing units are compliant with ISO standards. 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.

- 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	73.7 mm
Centre distance between bolt holes	143 mm
Bearing width, total	65.1 mm

Performance

Basic dynamic load rating	52.7 kN
Basic static load rating	36 kN
Limiting speed	3 400 r/min
Note	Limiting speed with shaft tolerance h6

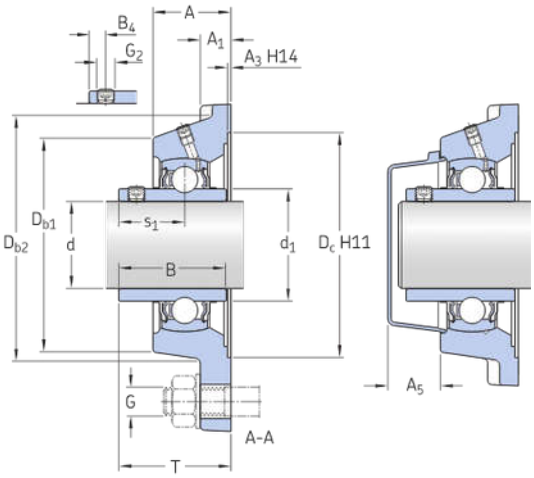
Properties

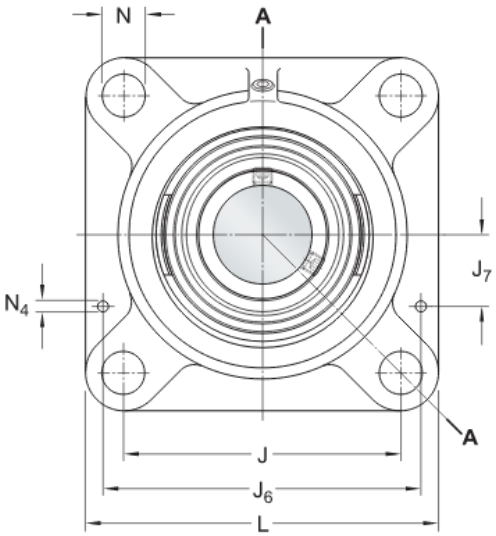
Housing type	Flanged
Flanged housing type	Square
Number of bolt holes for fasteners	4
Fastening bolt hole type	Plain
Retaining feature, inner ring	Set screws
Bore type	Cylindrical
Rubber seating ring	Without
Material, housing	Cast iron
Material, bearing	Bearing steel
Coating	Without
Sealing, bearing	Seal and flinger on both sides

Sealing type	Contact, standard
Sealing, unit	Optional end cover
Lubricant	Grease
Relubrication hole	With
Grease fitting	With

Technical Specification

Compliance with standard	ISO
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

d	60 mm	Bore diameter
d_1	≈ 75.64 mm	Outer diameter of inner 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	65.1 mm	Width of inner ring
B_4	10 mm	Distance from locking device side face to thread centre
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	39.7 mm	Distance from locking device side face to raceway centre
T	73.7 mm	Overall unit width

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
		Limiting speed with shaft tolerance h6

Mass

Mass bearing unit	3.95 kg

Mounting information

Set screw	G_2	M10x1
Hexagonal key size for set screw		5 mm
Recommended tightening torque for set screw		16.5 N·m
Recommended diameter for attachment bolts, mm	G	16 mm
Recommended diameter for attachment bolts, inch	G	0.625 in

Included products

Housing	FY 512 M
Bearing	YAR 212-2F

Associated products

End cover	ECY 212

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