



SKF FY 20 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.

Technical specifications

General	
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	
Bore diameter	20 mm
Outer diameter of inner ring	28.2 mm
Width of housing	29.5 mm
Flange width	11 mm
Depth of centring recess	3.2 mm
Standout of end cover	20.5 mm
Width of inner ring	31 mm
Overall bearing width	31 mm
Distance from locking device side face to thread centre	4.5 mm
Top external diameter	57 mm
Base external diameter	63 mm
Diameter of housing centering recess	68.3 mm
Centre distance between bolt holes	63.5 mm
Overall length	86 mm
Diameter of attachment bolt hole	11.5 mm
Distance from locking device side face to raceway centre	18.3 mm
Overall width	37.3 mm
Housing thread for grease fitting	1/4-28 UNF
Axial position of the housing thread	20.5 mm
Diameter of head sphere of grease fitting	6.5 mm
Hexagonal key size for the grease fitting	7 mm
Thread of grease fitting	1/4-28 SAE-LT
Distance of dowel pins	74 mm
Axial offset of dowel pins	16 mm
Recommended diameter for dowel pins	4 mm
Attachment bolt diameter	10 mm
Shaft diameter	20 mm
Housing overall width	29.5 mm
Width, total	37.3 mm
Bearing width, total	31 mm

Calculation data	
Basic dynamic load rating	12.7 kN
Basic static load rating	6.55 kN
Fatigue load limit	0.28 kN
Limiting speed	8500 r/min
	Limiting speed with shaft tolerance h6

Mounting information	
Set screw	M6x0.75
Hexagonal key size for set screw	3 mm
Recommended tightening torque for set screw	4 N·m
Recommended diameter for attachment bolts, mm	10 mm
Recommended diameter for attachment bolts, inch	0.375 in

Performance	
Basic dynamic load rating	12.7 kN
Basic static load rating	6.55 kN
Limiting speed	8500 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	0.54 kg
eClass code	23-05-08-02
UNSPSC code	31171536

SKF drawings

