



## SKF 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.

### 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                                            | 60 mm         |
| Outer diameter of inner ring                             | 75.64 mm      |
| Width of housing                                         | 52 mm         |
| Flange width                                             | 17 mm         |
| Depth of centring recess                                 | 3.2 mm        |
| Standout of end cover                                    | 39 mm         |
| Width of inner ring                                      | 65.1 mm       |
| Overall bearing width                                    | 65.1 mm       |
| Distance from locking device side face to thread centre  | 10 mm         |
| Top external diameter                                    | 130 mm        |
| Base external diameter                                   | 143 mm        |
| Diameter of housing centering recess                     | 161.9 mm      |
| Centre distance between bolt holes                       | 143 mm        |
| Overall length                                           | 175 mm        |
| Diameter of attachment bolt hole                         | 18 mm         |
| Distance from locking device side face to raceway centre | 39.7 mm       |
| Overall width                                            | 73.7 mm       |
| Housing thread for grease fitting                        | 1/4-28 UNF    |
| Axial position of the housing thread                     | 34.5 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                                   | 161 mm        |
| Axial offset of dowel pins                               | 49.5 mm       |
| Recommended diameter for dowel pins                      | 4 mm          |
| Attachment bolt diameter                                 | 16 mm         |
| Shaft diameter                                           | 60 mm         |
| Housing overall width                                    | 52 mm         |
| Width, total                                             | 73.7 mm       |
| Bearing width, total                                     | 65.1 mm       |

| Calculation data          |                                        |
|---------------------------|----------------------------------------|
| Basic dynamic load rating | 52.7 kN                                |
| Basic static load rating  | 36 kN                                  |
| Fatigue load limit        | 1.53 kN                                |
| Limiting speed            | 3400 r/min                             |
|                           | Limiting speed with shaft tolerance h6 |

| Mounting information                            |          |
|-------------------------------------------------|----------|
| Set screw                                       | 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   | 16 mm    |
| Recommended diameter for attachment bolts, inch | 0.625 in |

| Performance               |                                        |
|---------------------------|----------------------------------------|
| Basic dynamic load rating | 52.7 kN                                |
| Basic static load rating  | 36 kN                                  |
| Limiting speed            | 3400 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 | 3.97 kg     |
| eClass code        | 23-05-08-02 |
| UNSPSC code        | 31171536    |

**SKF drawings**

