SKF 608

Deep groove ball bearing

Single row deep groove ball bearings are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

Technical specifications

Dimensions	
Bore diameter	8 mm
Deviation limits of mid-range bore diameter	-0.007..0 mm
Outside diameter	22 mm
Deviation limits of mid-range outside diameter	-0.008..0 mm
Width	7 mm
Deviation limits of ring width	-0.06..0 mm
Shoulder diameter	12.15 mm
Recess diameter	19.2 mm
Chamfer dimension	0.3 mm
ISO tolerance class for dimensions	P6 and tighter width tolerance

Abutment dimensions	
Diameter of shaft abutment	10 mm
Diameter of housing abutment	20 mm
Radius of shaft or housing fillet	0.3 mm

Calculation data	
SKF performance class	SKF Explorer
Basic dynamic load rating	3.45 kN
Basic static load rating	1.37 kN
Fatigue load limit	0.057 kN
Reference speed	75000 r/min
Limiting speed	48000 r/min
Minimum load factor	0.03
Calculation factor	12

Tolerances of run-out	
Range of section height at inner ring of assembled bearing	4 µm
Maximum run-out of inner ring side face to the bore	7 µm
Maximum axial run-out of inner ring of assembled bearing	7 µm
Range of section height at outer ring of assembled bearing	6 µm
Perpendicularity of outer ring outside surface	4 µm
Maximum axial run-out of outer ring of assembled bearing	8 µm
ISO tolerance class for geometrical tolerances	P5

Performance	
Basic dynamic load rating	3.45 kN
Basic static load rating	1.37 kN
Reference speed	75000 r/min
Limiting speed	48000 r/min
SKF performance class	SKF Explorer

Properties	
Filling slots	Without
Number of rows	1
Locating feature, bearing outer ring	Without
Bore type	Cylindrical

Cage	Sheet metal
Matched arrangement	No
Radial internal clearance	CN
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without
Indicative carbon footprint for new product	0.04 kg CO₂e

Logistics	
Product net weight	0.0109 kg
eClass code	23-05-08-01
UNSPSC code	31171504

SKF drawings