



SKF 29244 E

Spherical roller thrust bearing with stamped steel cage

Spherical roller thrust bearings accommodate very heavy axial and considerable radial loads. They have the highest load rating of all thrust bearings, enabling compact, high power density bearing arrangements. By combining two or more spherical roller thrust bearings, it is possible to create a bearing arrangement that is either self-aligning, allowing misalignment of the shaft, or very stiff.

Technical specifications

Dimensions	
Bore diameter	220 mm
Outside diameter	300 mm
Height	48 mm
Outside diameter of shaft washer end side face	280 mm
Shoulder diameter outer ring	252 mm
Width shaft washer or length of shaft washer bore diameter that fits on shaft (bearings with a stamped steel cage)	30 mm
Height shaft washer + cage	43.4 mm
Height housing washer	24.5 mm
Distance from shaft washer end side face to pressure point	117 mm
Chamfer dimension shaft washer	2 mm

Abutment dimensions	
Diameter of shaft abutment	255 mm
Abutment diameter of spacer ring	224.5 mm
Outside diameter of spacer ring	227 mm
Length of spacer ring	17 mm
Diameter of housing abutment	271 mm
Fillet radius	2 mm

Calculation data	
Basic dynamic load rating	690 kN
Basic static load rating	3000 kN
Fatigue load limit	310 kN
Reference speed	1300 r/min
Limiting speed	2200 r/min
Minimum axial load factor	0.86

Performance	
Basic dynamic load rating	690 kN
Basic static load rating	3000 kN
Reference speed	1300 r/min
Limiting speed	2200 r/min

Properties	
Locating feature, housing washer	None
Bore type	Cylindrical
Cage	Sheet metal
Tolerance class	Normal
Candidate for remanufacturing	Yes
Indicative carbon footprint for new product	33.3 kg CO ₂ e
Indicative carbon footprint for remanufactured product	11.6 kg CO ₂ e

Logistics	
Product net weight	9.24 kg
eClass code	23-05-11-03
UNSPSC code	31171507

SKF drawings

