



Image may differ from product. See technical specification for details.

BEAS 017047 C-2RSH

Super-precision double direction angular contact thrust ball bearing for screw drives

These double direction angular contact thrust ball bearings are well suited for screw drive applications, but are also beneficial in other applications, where reliable radial and axial support is required, together with extremely precise axial guidance of the shaft. The

bearings provide a high degree of axial stiffness, high axial load carrying capacity, accommodate high speeds and rapid accelerations, and offer very high running accuracy.

- Accommodate radial loads, and axial loads in both directions
- Greased and sealed as standard
- Ready and easy to mount
- Easy to relubricate

Overview

Dimensions

Bore diameter	17 mm
Outside diameter	47 mm
Height	25 mm
Contact angle	60°

Performance

Basic dynamic load rating	21.2 kN
Basic static load rating	37.5 kN
Attainable speed for grease lubrication	4 300 r/min

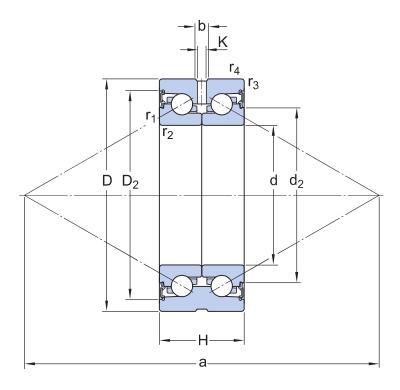
Properties

Axial load capability	Double-direction
Number of rows	2
Locating feature, bearing outer ring	None
Housing washer type (double-row angular contact thrust ball bearings)	One-piece
Cage	Non-metallic
Single bearing, universally matchable, delivered individually	No
Sealing	Seal on both sides
Sealing type	Contact
Lubricant	Grease
Relubrication feature	With

Logistics

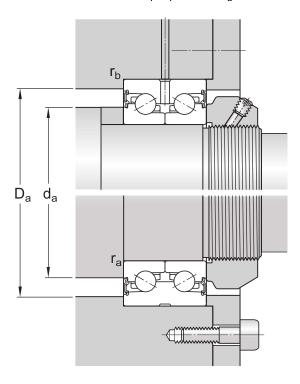
Product net weight	0.236 kg
eClass code	23-05-08-03
UNSPSC code	31171507

Technical specification



Dimensions

d	17 mm	Bore diameter
D	47 mm	Outside diameter
Н	25 mm	Height
d ₂	28.7 mm	Inner ring recess diameter
D_2	38.1 mm	Outer ring recess diameter
b	4.2 mm	Width of annular groove
К	3 mm	Diameter of lubrication hole
r _{1,2}	min. 0.3 mm	Chamfer radius
r _{3,4}	min. 0.6 mm	Chamfer radius
a	65 mm	Distance pressure points



Abutment dimensions

d _a	min. 23 mm	Abutment diameter shaft
D _a	max. 37 mm	Abutment diameter housing
r _a	max. 0.3 mm	Fillet radius
r _b	max. 0.6 mm	Fillet radius

Calculation data

Basic dynamic load rating	С	21.2 kN
Basic static load rating	C ₀	37.5 kN
Fatigue load limit	P_{u}	1.4 kN
Attainable speed		4 300 r/min
Contact angle	α	60 °
Preload		720 N
Frictional moment		0.24 N·m
Axial stiffness for preload A (sets of two brgs back-to-back or face-to-face)		470 N/μm
Static moment stiffness		80 N·m/mrad

Tolerances and clearances

PRODUCT DETAILS

- Tolerances: table
- Bearing preload
- Design considerations: shafts, housings

PRINCIPLES OF BEARING SELECTION AND APPLICATION

- Chamfer dimensions
- Speed dependent initial grease fill \rightarrow Initial grease fill

More Information

Product details	Engineering information	Tools
Designs and variants		SimPro Quick
Markings on bearings	Principles of bearing selection and application	SimPro Spindle
General bearing specifications	General bearing knowledge	Bearing Frequency Calculator
Preload, clearance, and stiffness	Bearing selection process	LubeSelect for SKF greases
Frictional moment	Bearing failure and how to prevent it	Heater selection tool
Loads		
Attainable speeds		
Design considerations		
Mounting		
Designation system		



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