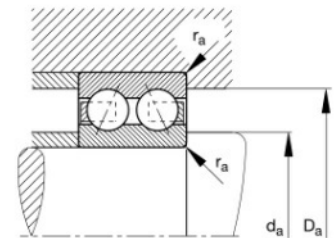
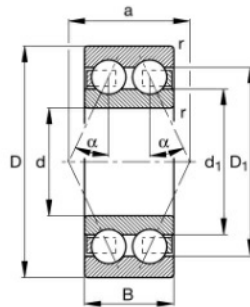


3303-B-TVH

Angular contact ball bearings Double row Open



Technicalsheet of 3303-B-TVH

What are the Benefits of choosing 3303-B-TVH bearings?

- **Bidirectional Load Capacity:** A single bearing can simultaneously withstand bidirectional axial and radial loads, eliminating the need for paired installation.
- **High Rigidity and Anti-Overturning:** A large contact angle design effectively resists tilting moments, ensuring shaft system stability.
- **Compact Structure:** Occupies minimal axial space, simplifying housing design and facilitating installation.

Type :	Double row angular contact ball bearings	
Model :	3303-B-TVH	
Main demensions :	17 mm × 47 mm × 22.2 mm	Bore Dia × Outside Dia × Width Dia
M kg:	0.173	Mass
HS Code :	8482103000	Bearing customs code
d mm:	17	inner ring diameter
D mm:	47	Outer ring diameter
B(T) mm:	22.2	Overall Width
Cr kN:	22.467	Radial dynamic load rating
C0r kN:	13.086	Radial static load rating
Grease r/min:	12595	Reference speed
Oil r/min:	12382	Limiting speed

Detailed parameters and installation dimensions:

Part Number	3303-B-TVH
Design Type	B = Bearing without filling slot
Series	33...-BD-XL-TVH
X-Life	XL
Limiting speed (oil) - n_G	12382 min ⁻¹
Reference speed (grease) - n_B	12595 min ⁻¹
Bearing Mass - m	0.173 kg 0.381 lb
Reference From	FAG 3303-B-TVH
Dimension Inside - d ϕ	17 mm 0.669 inch
Dimension Outside - D ϕ	47 mm 1.850 inch
Dimension Width - B	22.2 mm 0.874 inch
Rows NO.	double
Accuracy class	P6
Dimension - r(min.)	1 mm 0.039 inch
Seal	Open
Dimension - D ₁	38.97 mm 1.534 inch
Dimension - D ₂	41.13 mm 1.619 inch
Radial static Capacity - C _{0r}	13086 N 2941 lbf
Bore Type	Z = Cylindrical Bore
Heat stabilization	SN = up to 120°
Dimension - d ₁	28.52 mm 1.123 inch
Dimension - d ₂	27.14 mm 1.069 inch
Dimension - a	27.5 mm 1.083 inch
Manufacturer Part Code	3303-BD-TVH-L285
Contact angle - α	30 °
Mounting dimensions - d _a (min.)	22.6 mm 0.890 inch
Mounting dimensions - D _a (max.)	41.4 mm 1.630 inch
Bearing Type	Angular contact ball bearings Double row Open
Mounting dimensions - r _a (max.)	1 mm 0.039 inch
Temperature - T(min)	-20°C
Temperature - T(max)	120°C
Ring Material	GCr15SiMn
Cage	TVH = Solid polyamide snap cage, ball-guided
Radial Dynamic Capacity - C _r	22467 N 5050 lbf
Ball Material	GCr15SiMn
RIC	CN
Radial Fatigue Capacity - C _{ur}	900 N 202 lbf
Equivalent	3303-B-TVH,3303-BD-TVH-L285
Lubricant	L285 = Grease (L285)

What are the applications of the 3303-B-TVH bearing?

- **Gearboxes/Reducers:** Used in industrial gearboxes and planetary reducers. Withstands bidirectional composite loads, provides high rigidity support, and ensures smooth transmission.
- **Pumps/Compressors:** Used in centrifugal pumps, screw pumps, and refrigeration compressors. Precise axial positioning, compact structure, and space-saving installation.
- **Agitators/Worm Gear Drives:** Used in agitators, worm gear reducers, and machine tool indexing heads. Effectively resists tilting moments; a single bearing solves bidirectional axial positioning.

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