Catalog 300

Engineering and selection guide



an SKF Group brand



Kaydon Thinfinite bearing solutions

Precision Reali-Slim[®] Thin Section Bearings







Available from 3/4" to 40"

www.kaydonbearings.com

Identification of Reali-Slim® Bearings

Reali-Slim bearings are marked for complete identification with an (8) or (9) digit part number. Positions 1-8 identify materials, size,

type, and precision. Position 9 (optional) identifies non-standard internal fit.

sition 1	2	3	4	5	6	7	8	9
le K	G	1	2	0	X	Р	0	L
Mate	rial Series	Size	Size	Size	Туре	Separator	Precision	Interna
- Mat Is Steel Steel teel teel teel, ainless Steel is a 6) Steel is a 6)	erial Seals, Shields One shield Two shields One seal—Nitrile rubber Two seals or shields Two seals or shields Two seals or shields Endurakote plating and No seals No shields or seals		Positi Open AA 3/16"x (*.187x D 1/2" (.500	ion 2 – Set Bearings A 3/16" .187) (x 1/2" x.500) d Bearings JA (4" 1/4" x 1/4"	ries Standa 1/4" × 1/4" 250 × .250) 3/4" × 3/4" (.750 × .750 JB DB DD DD DD DD DD DD DD DD	ard Cross S ^B 5/16" x 5/16" (.312 x .312) G		3/8" .375)
Two shi					es when positi			
	seals—Nitrile rubbe hields or seals	21	Positio	ns 3, 4, and 5.	owing explana		1" x 1" (1.000 x 1.00	0)
	No shields or seals		Numeri multipli Alphab	c Characters - ed by ten etic Characte r	Nominal beari	(Bearing Being bore in inches	S	7 Sorias
							enotes . 187 x . 18 lenotes . 187 x . 2	

Section 1

Kaydon Bearings Reali-Slim Bearings Catalog 300

Identification of Reali-Slim Bearings (continued)



Section

Kaydon Makes It Easy to Design with Reali-Slim Bearings

As comprehensive as each new edition of this catalog is, it's just one of many tools developed by Kaydon Bearings to help engineers evaluate thin section bearings for their applications. At our website (www.kaydonbearings.com), for example, you'll find CAD downloads, an interactive bearing selector and advanced design software to make your job much easier.



CAD Downloads

CAD drawings are available for download in 38 different formats (e.g., AutoCAD, DXF, SolidWorks). Simply select the type of bearing you want from the drop-down menu and go to its page. There you can find the part number that matches the dimensions or capacities you need. Simply register or log in, and you'll be able to download the file by clicking on the part number.

From there you can view the bearing in 3D or download the file in your preferred format.



Interactive Bearing Selector

Kaydon's interactive bearing selector lets you search our online catalog and download 2D or 3D drawings to simplify the selection process. Search by part number (even if it's incomplete) or by bore size, outside diameter, and/or width minimums and maximums... in inches or millimeters.

	Search by size Specify inch bearings, metric bearings, or both, then fill in one or a spaces to search by minimum and/or maximum dimensions.						
Bearing series	O Inch bearings (inches)						
	O Metric bearings (mm)						
	Both inch and metric bearings						
Show results in	⊜inches ⊙mm						
	Minimum	Maximum	Available sizes*				
Bore size			0.9843* - 40.0000*				
Outside diameter			1.3750" - 42.0000"				
Width			0.0984" - 1.0000"				
	* Search criteria is based on nominal dimensions						

Reali-Design® and Reali-Design MM®

When Kaydon introduced it in 1994, Reali-Design software quickly became the go-to program for anyone thinking about specifying thin section bearings. This innovative program has saved engineers countless hours by doing complex power transmission computations for them.



Reali-Design and Reali-Design MM software (for Reali-Slim inch and metric bearings, respectively), can:

- save hours of tedious computations
- reduce bearing selection time to seconds
- accurately compute essential life and load analyses
- determine safe operating speeds
- calculate load deflections

These programs (PC System requirements: Windows® 95 or later; 50 MB of free drive space) are valuable supplements to this catalog. They include a CAD-ready DXF library, training modules, data sheet creation program, life calculations, torque and deflection graphs, and much more.

For more details of this user-friendly software, turn to <u>Page 110</u>. To get your copy of Reali-Design (including Reali-Design MM), contact Kaydon or simply download it from our website, <u>www.kaydonbearings.com</u>.