

Factory-Verified Replacement

MERYDOM XSI 140544 N

Certified for interchange with INA XSI 140544 N. This document consolidates the public product record, complete published specifications, technical media, source traceability and engineering confirmation notes.

LEVEL 3 - MERYDOM ENGINEERING VERIFIED

Reviewed by MERYDOM Engineering Department. Final application approval must confirm loads, duty cycle, mounting rigidity, bolt capacity, lubrication and operating conditions.

MERYDOM MODEL

XSI 140544 N

SERIES

XSI 14 Series

OVERALL OD

614 mm

OVERALL HEIGHT

mm

REFERENCE

INA XSI 140544 N

STRUCTURE

Rolos cruzados

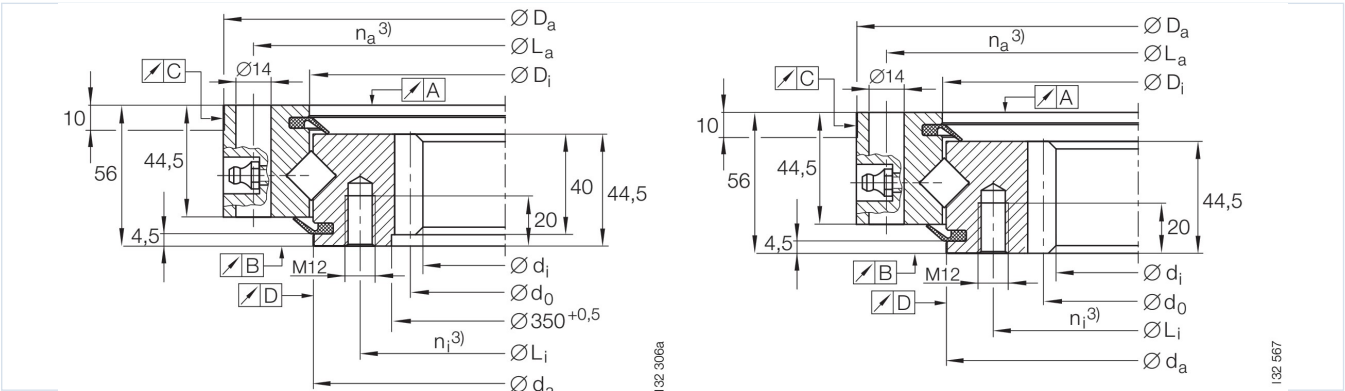
OVERALL ID

444 mm

GEAR

Engrenagem interna

Published Technical Drawing



ina-g15-drawing.webp

132 567

Complete Product Data

All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

MERYDOM CERTIFIED PRODUCT	
Product brand	MERYDOM
MERYDOM model	XSI 140544 N
Certified interchangeable with	INA XSI 140544 N
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	JIN52NB5PKPQPB6RXIOJ6A2SWS
MATERIALS	
Configurable ring material options	42CrMo / 50Mn
Seal material	NBR - Nitrile rubber
Configurable spacer material options	Engineering nylon / Brass
IDENTIFICATION	
Reference brand	INA
Reference series	XSI 14 Series
Reference model	XSI 140544 N
Bearing structure	Rolos cruzados
Gear arrangement	Engrenagem interna
DIMENSION	
Mass (Mass)	43 kg
Overall outside diameter (Da)	614 mm
Overall inside diameter (di)	444 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Catalog diameter Di (Di)	545+0,5 mm
Catalog diameter da (da)	541 mm
MOUNTING	
Outer ring bolt circle (La)	590 mm
Outer ring mounting-hole count (na)	32
Inner ring bolt circle (Li)	505 mm
Inner ring mounting-hole count (ni)	32
GEAR	
Gear module (m)	6 mm
Gear tooth count (z)	76
Gear pitch diameter (d0)	456 mm
PERFORMANCE	
Normal tooth force (Fznorm)	23,7 kN
Maximum tooth force (Fzmax)	35 kN
Basic dynamic axial load rating (Ca)	270 kN
Basic static axial load rating (C0a)	680 kN
Basic dynamic radial load rating (Cr)	170 kN
Basic static radial load rating (C0r)	330 kN
Preload (Preload)	0,01 incl. 0,03 mm
Maximum permissible radial load (Fr perm)	132,2 kN

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PERFORMANCE RATINGS	
Rating Radial Static	330 kN Not simultaneous with other listed dynamic ratings
Rating Axial Static	680 kN Not simultaneous with other listed dynamic ratings
Rating Radial Dynamic	170 kN Not simultaneous with other listed dynamic ratings
Rating Axial Dynamic	270 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	35 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Normal	23,7 kN Not simultaneous with other listed dynamic ratings
Rating Radial Load Max	132,2 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	32 holes - See source drawing
Inner ring mounting	32 holes - See source drawing
GEAR INTERFACE	
Pitch system	module
Module reference	6 mm
Number of teeth	76
SOURCE TRACEABILITY	
Source document code	INA-SLEWING-RINGS-CATALOGUE-404-2012
Source file	404_de_en_1.pdf
PDF page	86
Printed page	84
Source language	EN-DE

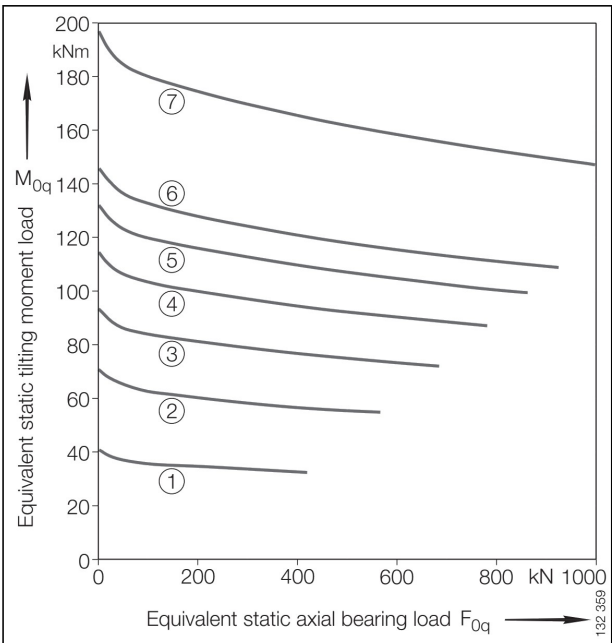
Complete Product Data

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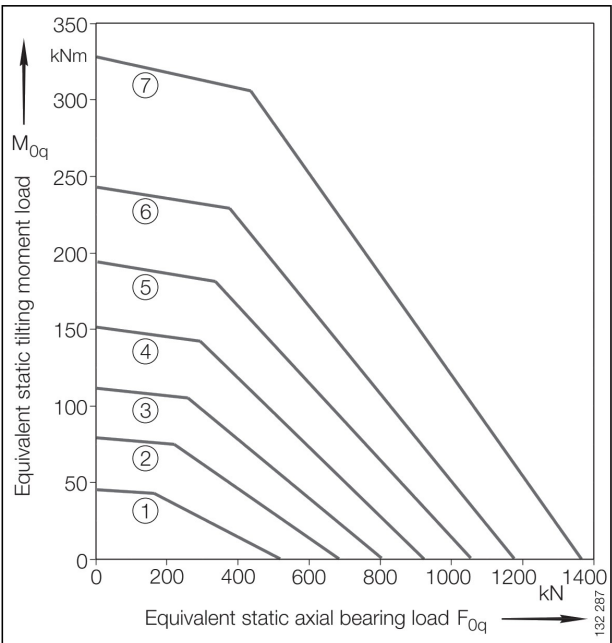
SOURCE TRACEABILITY (CONTINUED)	
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	ina-g15-curve.webp SHA-256: e6bbaf5d098a55e1cd150982c59d76f7da12864c8d3639eeb18183b63f adaa40
Outline Drawing	ina-g15-drawing.webp SHA-256: c62eafee3c7088113cf75b651334695cb921d4c68f77757dc0c3564c6d 8de3e6

Published Load / Performance Chart

Use the published chart as a preliminary selection aid only. The model legend, curve family and source document must be reviewed together with the operating load case.



Static limiting load diagram



Static limiting load diagram

ina-g15-curve.webp | SHA-256: e6bbaf5d098a55e1cd150982c59d76f7da12864c8d3639eeb18183b63fadaa40

Engineering note: final approval must also consider mounting rigidity, bolt capacity, duty cycle, lubrication, temperature, environment and installation conditions.

Source and Verification Traceability

PUBLIC RECORD UID**JIN52NB5PKPQPB6RXIOJ6A2SWS****SOURCE DOCUMENT****INA-SLEWING-RINGS-CATALOGUE-404-2012****SOURCE FILE****404_de_en_1.pdf****SOURCE LOCATION****PDF page 86 | Printed page 84****VERIFICATION****Level 3 - MERYDOM Engineering
Verified****REVIEWED BY****MERYDOM Engineering Department**

Engineering Confirmation Boundary

- 1 Confirm the exact model designation and all installation-envelope dimensions.
- 2 Confirm mounting-hole quantity, bolt circle, hole specification, bolt grade and preload.
- 3 Confirm gear arrangement, pitch system, tooth count, backlash and mating-pinion data.
- 4 Confirm axial, radial and moment loads, load combinations, duty cycle and required life.
- 5 Confirm support flatness and stiffness, lubrication, sealing, temperature and environment.
- 6 Final drawing revision, manufacturing tolerances and documentation package are confirmed with the quotation.

Request Price, Delivery and Final Engineering Confirmation

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