

Factory-Verified Replacement

MERYDOM XA 120235 N

Certified for interchange with INA XA 120235 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

XA 120235 N

SERIES

XA Series

OVERALL OD

318.8 mm

OVERALL HEIGHT

40 mm

REFERENCE

INA XA 120235 N

STRUCTURE

Cross roller

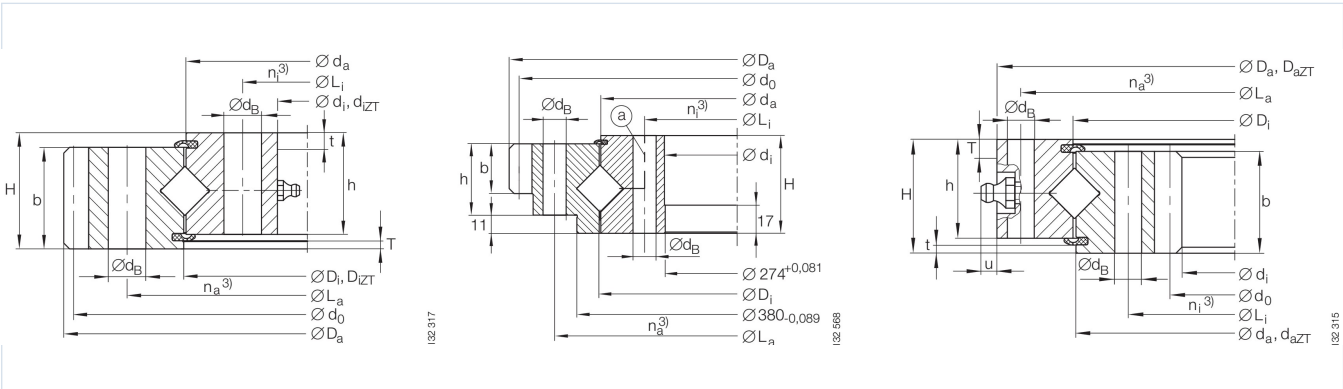
OVERALL ID

171 mm

GEAR

External gear

Published Technical Drawing



ina-g17-drawing.webp

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	XA 120235 N
Certified interchangeable with	INA XA 120235 N
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	OUNE4EY2AUYNPXKYZWEZFM24GB
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	XA Series
Reference model	XA 120235 N
Bearing structure	Cross roller
Gear arrangement	External gear
DIMENSION	
Mass (Mass)	13.3 kg
Overall outside diameter (Da)	318.8 mm
Overall inside diameter (di)	171 mm

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.

DIMENSION (CONTINUED)	
Inside centring diameter (diZT)	173 mm
Catalog diameter Di (Di)	236 0,2 mm
Catalog centring diameter DiZT (DiZT)	238 mm
Catalog diameter da (da)	234 0,2 mm
Outer centring length (T)	2.6 mm
Inner centring length (t)	6 mm
Overall height (H)	40 mm
Inner height (h)	35 mm
MOUNTING	
Outer ring bolt circle (La)	275 mm
Inner ring bolt circle (Li)	195 mm
Outer ring mounting-hole count (na)	12
Inner ring mounting-hole count (ni)	12
Common mounting-hole diameter (dB)	13 mm
GEAR	
Gear pitch diameter (d0)	312 mm
Gear module (m)	4 mm
Gear tooth count (z)	78
Gear face width (b)	35 mm
PERFORMANCE	

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PERFORMANCE (CONTINUED)	
Maximum permissible radial load (Fr perm)	49.6 kN
Normal tooth force (Fznorm)	11 kN
Maximum tooth force (Fzmax)	16.1 kN
Basic dynamic axial load rating (Ca)	135 kN
Basic static axial load rating (C0a)	235 kN
Basic dynamic radial load rating (Cr)	86 kN
Basic static radial load rating (C0r)	115 kN
Preload (Preload)	0 incl. 0,02 mm
PERFORMANCE RATINGS	
Rating Radial Static	115 kN Not simultaneous with other listed dynamic ratings
Rating Axial Static	235 kN Not simultaneous with other listed dynamic ratings
Rating Radial Dynamic	86 kN Not simultaneous with other listed dynamic ratings
Rating Axial Dynamic	135 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	16.1 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Normal	11 kN Not simultaneous with other listed dynamic ratings
Rating Radial Load Max	49.6 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	12 holes - dB 13 mm
Inner ring mounting	12 holes - dB 13 mm
GEAR INTERFACE	

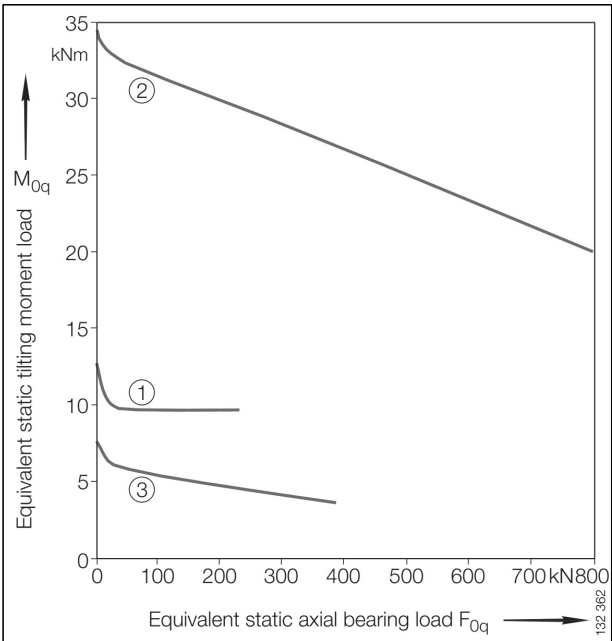
Complete Product Data

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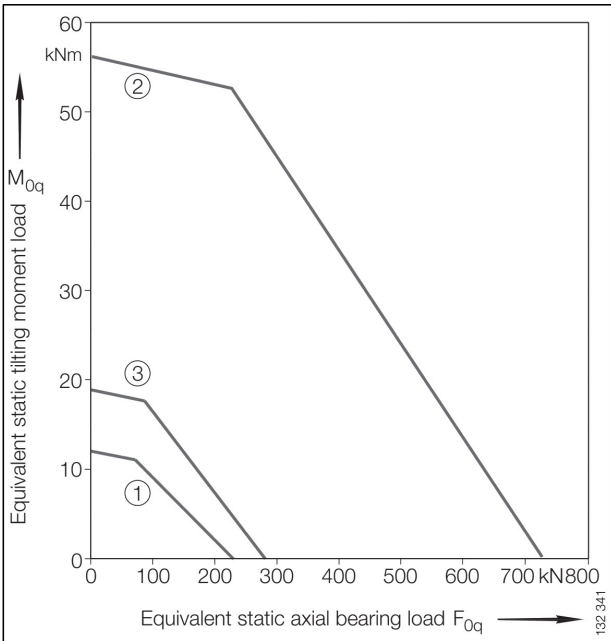
GEAR INTERFACE (CONTINUED)	
Pitch system	module
Module reference	4 mm
Number of teeth	78
SOURCE TRACEABILITY	
Source document code	INA-SLEWING-RINGS-CATALOGUE-404-2012
Source file	404_de_en_1.pdf
PDF page	90
Printed page	88
Source language	EN-DE
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	ina-g17-curve.webp SHA-256: 65958fde54e81ea0cc019594cd625f5b29c2e290e626a6c7f9db6a9939b89e56
Outline Drawing	ina-g17-drawing.webp SHA-256: ac8a931385fa20eeb36124ae0ed4fcd56cbe85f6f88ac9f8581c94d3c6691277

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-g17-curve.webp | SHA-256: 65958fde54e81ea0cc019594cd625f5b29c2e290e626a6c7f9db6a9939b89e56

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**OUNE4EY2AUYNPXKYZWEZFM24GB****SOURCE DOCUMENT****INA-SLEWING-RINGS-CATALOGUE-404-2012****SOURCE FILE****404_de_en_1.pdf****SOURCE LOCATION****PDF page 90 | Printed page 88****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

Email: jovi@merydom.com | Email: andi@merydom.com | WhatsApp: +86 17705201170Product page: <https://rotnex.com/products/slewing-bearing-replacements/ina/xa-120235-n/>

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