

Factory-Verified Replacement

MERYDOM VLA 200414 N

Certified for interchange with INA VLA 200414 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

VLA 200414 N

SERIES

VLA 20 Series

OVERALL OD

503.3 mm

OVERALL HEIGHT

mm

REFERENCE

INA VLA 200414 N

STRUCTURE

Four-point contact ball

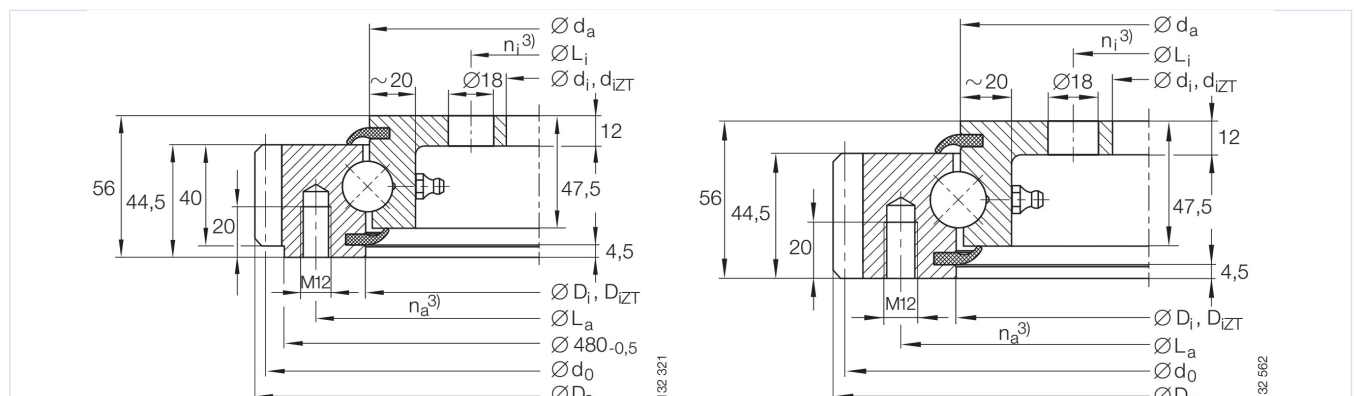
OVERALL ID

304 mm

GEAR

External gear

Published Technical Drawing



ina-g01-drawing.webp

32 562

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	VLA 200414 N
Certified interchangeable with	INA VLA 200414 N
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	5OZDSNMJXAH7VBTAC2ROVZHJQI
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	VLA 20 Series
Reference model	VLA 200414 N
Bearing structure	Four-point contact ball
Gear arrangement	External gear
DIMENSION	
Mass (Mass)	29.5 kg
Overall outside diameter (Da)	503.3 mm
Overall inside diameter (di)	304+0,5 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Inside centring diameter (diZT)	306 mm
Catalog diameter Di (Di)	415,5+0,5 mm
Catalog centring diameter DiZT (DiZT)	417 mm
Catalog diameter da (da)	412,5-0,5 mm
MOUNTING	
Outer ring bolt circle (La)	455 mm
Outer ring mounting-hole count (na)	10
Inner ring bolt circle (Li)	332 mm
Inner ring mounting-hole count (ni)	12
GEAR	
Gear pitch diameter (d0)	495 mm
Gear module (m)	5 mm
Gear tooth count (z)	99
PERFORMANCE	
Maximum permissible radial load (Fr perm)	41.3 kN
Normal tooth force (Fznorm)	15.9 kN
Maximum tooth force (Fzmax)	23.6 kN
Basic dynamic axial load rating (Ca)	169 kN
Basic static axial load rating (C0a)	295 kN
Basic dynamic radial load rating (Cr)	111 kN

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PERFORMANCE (CONTINUED)	
Basic static radial load rating (C _{0r})	110 kN
PERFORMANCE RATINGS	
Rating Radial Static	110 kN Not simultaneous with other listed dynamic ratings
Rating Axial Static	295 kN Not simultaneous with other listed dynamic ratings
Rating Radial Dynamic	111 kN Not simultaneous with other listed dynamic ratings
Rating Axial Dynamic	169 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	23.6 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Normal	15.9 kN Not simultaneous with other listed dynamic ratings
Rating Radial Load Max	41.3 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	10 holes - See source drawing
Inner ring mounting	12 holes - See source drawing
GEAR INTERFACE	
Pitch system	module
Module reference	5 mm
Number of teeth	99
SOURCE TRACEABILITY	
Source document code	INA-SLEWING-RINGS-CATALOGUE-404-2012
Source file	404_de_en_1.pdf
PDF page	54

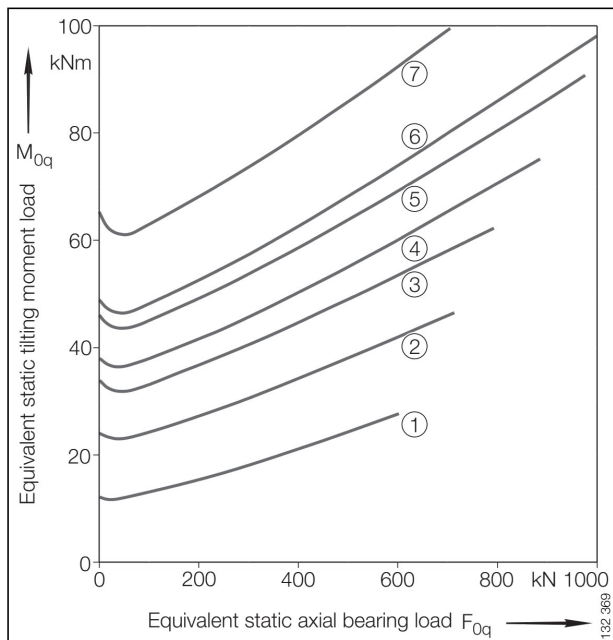
Complete Product Data

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

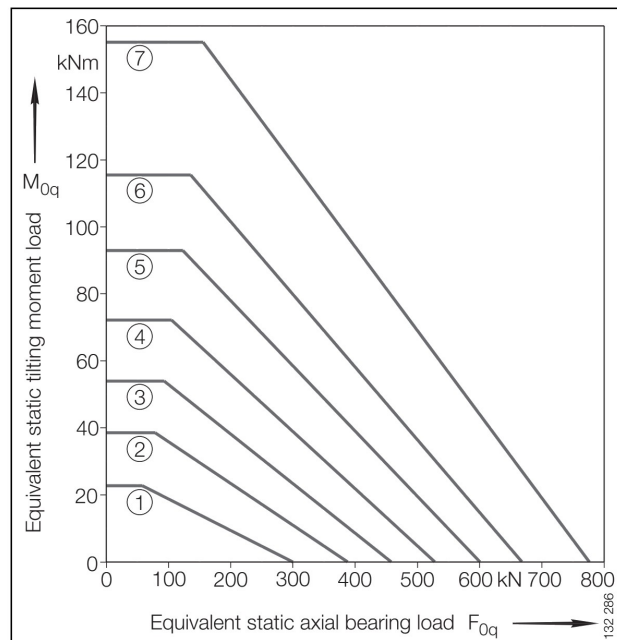
SOURCE TRACEABILITY (CONTINUED)	
Printed page	52
Source language	EN-DE
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	ina-g01-curve.webp SHA-256: 2caac1c864b5 added53bd9d1e31436acf09dda1d167c8ac24282b1df9f2a a9c8cf
Outline Drawing	ina-g01-drawing.webp SHA-256: e338fcc82ad5e0dba14b2ecf00b36a89b66bda6f2920b5ecee24fa2aa6 adb292

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-g01-curve.webp | SHA-256: 2caac1c864b5fdd53bd9d1e31436acf09dda1d167c8ac24282b1df9f2aa9c8cf

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

5OZDSNMJXAH7VBTAC2ROVZHJQI

SOURCE DOCUMENT

INA-SLEWING-RINGS-CATALOGUE-404-2012

SOURCE FILE

404_de_en_1.pdf

SOURCE LOCATION

PDF page 54 | Printed page 52

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 17705201170

Product page: <https://rotnex.com/products/slewing-bearing-replacements/ina/vla-200414-n/>

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