

Factory-Verified Replacement

MERYDOM VSU 200414

Certified for interchange with INA VSU 200414. 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

VSU 200414

REFERENCE

INA VSU 200414

SERIES

VSU 20 Series

STRUCTURE

Four-point contact ball

OVERALL OD

486 mm

OVERALL ID

342 mm

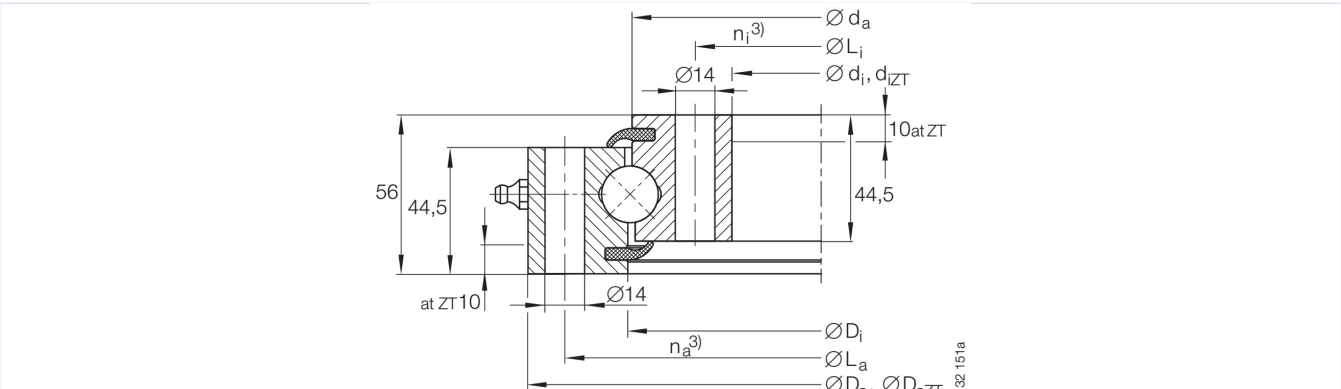
OVERALL HEIGHT

mm

GEAR

Ungeared

Published Technical Drawing



ina-g06-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	VSU 200414
Certified interchangeable with	INA VSU 200414
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	242A5KUO74LVUSLD3Y7SXV53QB
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	VSU 20 Series
Reference model	VSU 200414
Bearing structure	Four-point contact ball
Gear arrangement	Ungeared
DIMENSION	
Mass (Mass)	29 kg
Overall outside diameter (Da)	486-0,5 mm
Outside centring diameter (DaZT)	484 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)	
Overall inside diameter (di)	342+0,5 mm
Inside centring diameter (diZT)	344 mm
Catalog diameter Di (Di)	415,5+0,5 mm
Catalog diameter da (da)	412,5-0,5 mm
MOUNTING	
Outer ring bolt circle (La)	460 mm
Outer ring mounting-hole count (na)	24
Inner ring bolt circle (Li)	368 mm
Inner ring mounting-hole count (ni)	24
PERFORMANCE	
Maximum permissible radial load (Fr perm)	99.1 kN
Basic dynamic axial load rating (Ca)	169 kN
Basic static axial load rating (C0a)	560 kN
Basic dynamic radial load rating (Cr)	111 kN
Basic static radial load rating (C0r)	248 kN
PERFORMANCE RATINGS	
Rating Radial Static	248 kN Not simultaneous with other listed dynamic ratings
Rating Axial Static	560 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

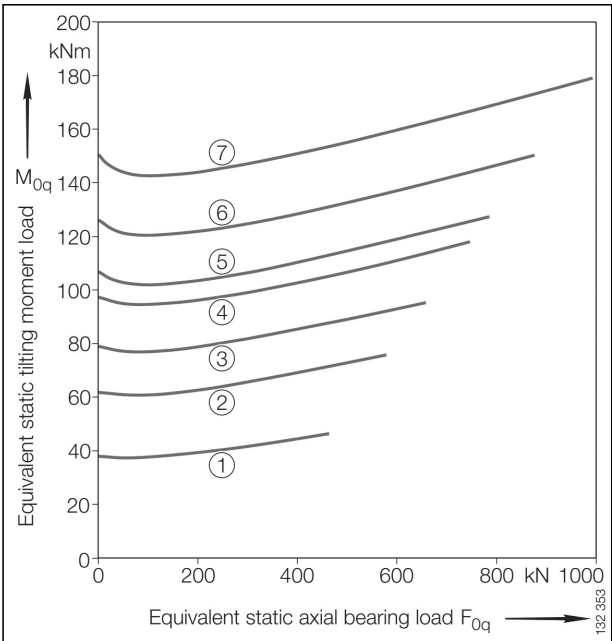
Complete Product Data

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

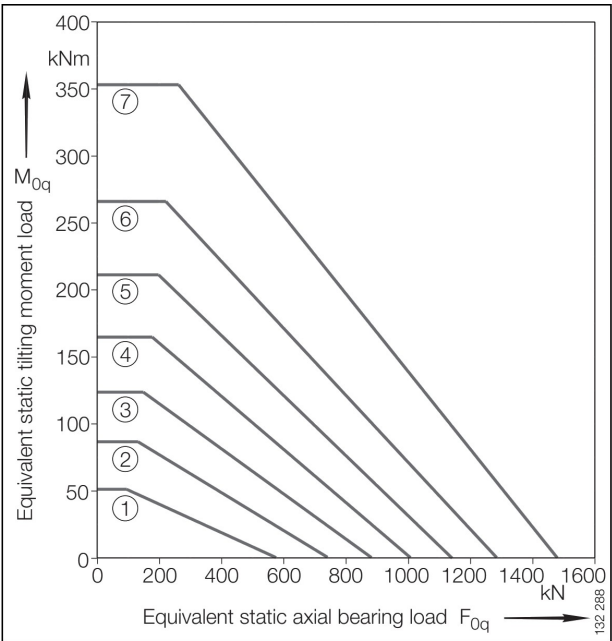
PERFORMANCE RATINGS (CONTINUED)	
Rating Radial Load Max	99.1 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	24 holes - See source drawing
Inner ring mounting	24 holes - See source drawing
GEAR INTERFACE	
Integral gear	Not applicable - ungeared bearing
SOURCE TRACEABILITY	
Source document code	INA-SLEWING-RINGS-CATALOGUE-404-2012
Source file	404_de_en_1.pdf
PDF page	64
Printed page	62
Source language	EN-DE
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	ina-g06-curve.webp SHA-256: a767a7105944bc5401a39e0ede4b4f623d24e113375df4bf36c2fa9e0864804b
Outline Drawing	ina-g06-drawing.webp SHA-256: b3a51e9965d71c7d473f8e3499d35f34a8bea5f458a0ca50dec600def17ace46

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-g06-curve.webp | SHA-256: a767a7105944bc5401a39e0ede4b4f623d24e113375df4bf36c2fa9e0864804b

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**242A5KU074LVUSLD3Y7SXV53QB****SOURCE DOCUMENT****INA-SLEWING-RINGS-CATALOGUE-404-2012****SOURCE FILE****404_de_en_1.pdf****SOURCE LOCATION****PDF page 64 | Printed page 62****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/vsu-200414/>

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