

Factory-Verified Replacement

MERYDOM VSA 250855 N

Certified for interchange with INA VSA 250855 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

VSA 250855 N

SERIES

VSA 25 Series

OVERALL OD

997 mm

OVERALL HEIGHT

mm

REFERENCE

INA VSA 250855 N

STRUCTURE

Four-point contact ball

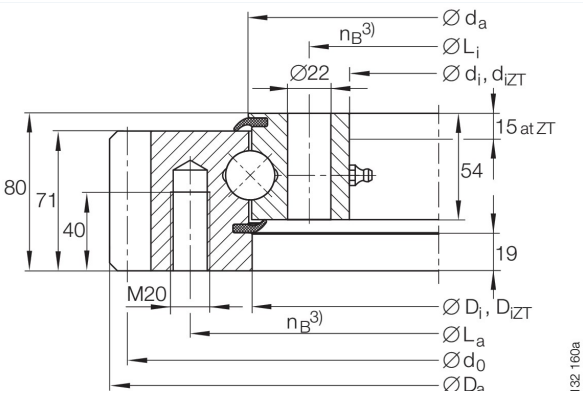
OVERALL ID

755 mm

GEAR

External gear

Published Technical Drawing



ina-g07-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	VSA 250855 N
Certified interchangeable with	INA VSA 250855 N
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	ATOL7KLT34S4TTGGJZZ5DZV40X
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	VSA 25 Series
Reference model	VSA 250855 N
Bearing structure	Four-point contact ball
Gear arrangement	External gear
DIMENSION	
Mass (Mass)	145 kg
Overall outside diameter (Da)	997 mm
Overall inside diameter (di)	755 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)	757 mm
Catalog diameter Di (Di)	853 mm
Catalog centring diameter DiZT (DiZT)	855 mm
Catalog diameter da (da)	857 mm
MOUNTING	
Outer ring bolt circle (La)	916 mm
Inner ring bolt circle (Li)	795 mm
Common mounting-hole count (nB)	28
GEAR	
Gear pitch diameter (d0)	981 mm
Gear module (m)	9 mm
Gear tooth count (z)	109
PERFORMANCE	
Maximum permissible radial load (Fr perm)	338.8 kN
Normal tooth force (Fznorm)	55.1 kN
Maximum tooth force (Fzmax)	80.2 kN
Basic dynamic axial load rating (Ca)	485 kN
Basic static axial load rating (C0a)	2,550 kN
Basic dynamic radial load rating (Cr)	315 kN
Basic static radial load rating (C0r)	1,150 kN

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PERFORMANCE (CONTINUED)	
Radial clearance (Radial clearance)	0,03 incl. 0,13 mm
Axial tilting clearance (Axial tilting clearance)	0,05 incl. 0,24 mm
PERFORMANCE RATINGS	
Rating Radial Static	1,150 kN Not simultaneous with other listed dynamic ratings
Rating Axial Static	2,550 kN Not simultaneous with other listed dynamic ratings
Rating Radial Dynamic	315 kN Not simultaneous with other listed dynamic ratings
Rating Axial Dynamic	485 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	80.2 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Normal	55.1 kN Not simultaneous with other listed dynamic ratings
Rating Radial Load Max	338.8 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	28 holes - See source drawing
Inner ring mounting	28 holes - See source drawing
GEAR INTERFACE	
Pitch system	module
Module reference	9 mm
Number of teeth	109
SOURCE TRACEABILITY	
Source document code	INA-SLEWING-RINGS-CATALOGUE-404-2012
Source file	404_de_en_1.pdf

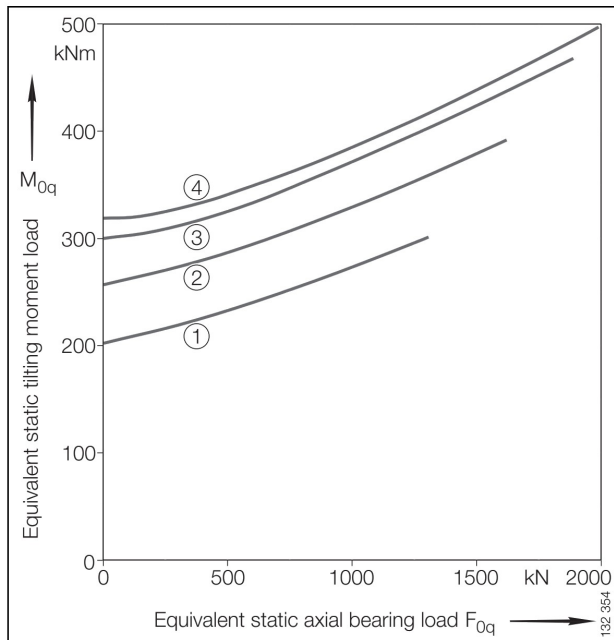
Complete Product Data

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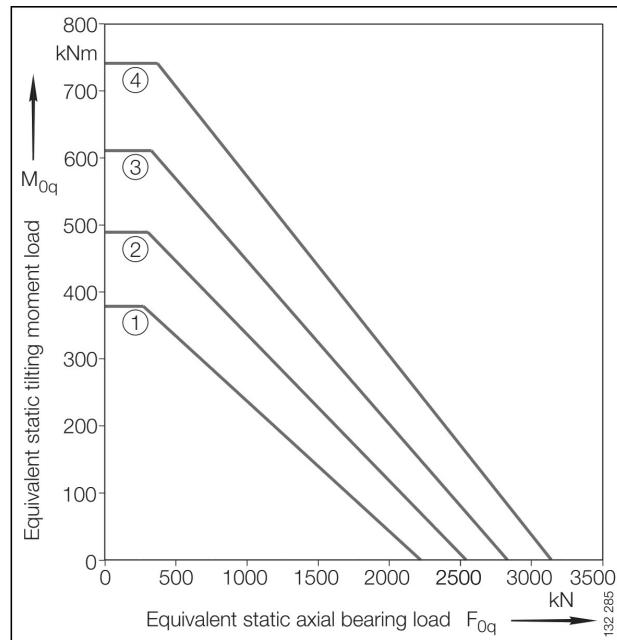
SOURCE TRACEABILITY (CONTINUED)	
PDF page	66
Printed page	64
Source language	EN-DE
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	ina-g07-curve.webp SHA-256: 28e671cd49b81a18c7d3ea5b26ebde06b0ab2b0eb687d72a13ccd54f7b ac79c2
Outline Drawing	ina-g07-drawing.webp SHA-256: 25af4a3506a617926cab52f52f4926d1a0dda691f6d4220264c56e900 b1feca

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-g07-curve.webp | SHA-256: 28e671cd49b81a18c7d3ea5b26ebde06b0ab2b0eb687d72a13ccd54f7bac79c2

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 ATOL7KLT34S4TTGGJZZ5DZV4OX	SOURCE DOCUMENT INA-SLEWING-RINGS-CATALOGUE-404-2012
SOURCE FILE 404_de_en_1.pdf	SOURCE LOCATION PDF page 66 Printed page 64
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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Product page: <https://rotnex.com/products/slewing-bearing-replacements/ina/vsa-250855-n/>

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