

Factory-Verified Replacement

MERYDOM VS050A03

Certified for interchange with La Leonessa VS050A03. 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

VS050A03

SERIES

1S Series

OVERALL OD

503.3 mm

OVERALL HEIGHT

56 mm

REFERENCE

La Leonessa VS050A03

STRUCTURE

Esferas de contato de quatro pontos

OVERALL ID

344 mm

GEAR

Sem engrenagem

Published Technical Drawing



la-leonessa-1s-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                        | VS050A03                               |
| Certified interchangeable with       | La Leonessa VS050A03                   |
| Verification status                  | Level 3 - MERYDOM Engineering Verified |
| Reviewed by                          | MERYDOM Engineering Department         |
| Public record UID                    | BYZZVRU7YV2NPMNTTKKP7AK2QO             |
| MATERIALS                            |                                        |
| Configurable ring material options   | 42CrMo / 50Mn                          |
| Seal material                        | NBR - Nitrile rubber                   |
| Configurable spacer material options | Engineering nylon / Brass              |
| IDENTIFICATION                       |                                        |
| Reference brand                      | La Leonessa                            |
| Reference series                     | 1S Series                              |
| Reference model                      | VS050A03                               |
| Bearing structure                    | Esferas de contato de quatro pontos    |
| Gear arrangement                     | Sem engrenagem                         |
| DIMENSION                            |                                        |
| Mass (P)                             | 33 kg                                  |
| Overall outside diameter (De)        | 503,3 mm                               |
| Overall inside diameter (Di)         | 344 mm                                 |

Complete Product Data

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| DIMENSION (CONTINUED)                       |                                                             |
|---------------------------------------------|-------------------------------------------------------------|
| Overall height (H)                          | 56 mm                                                       |
| Dim Dr (Dr)                                 | 415 mm                                                      |
| MOUNTING                                    |                                                             |
| Outer ring bolt circle (Ie)                 | 460 mm                                                      |
| Outer ring mounting-hole count (ne)         | 20                                                          |
| Outer ring mounting-hole specification (Me) | M12                                                         |
| Inner ring bolt circle (Ii)                 | 368 mm                                                      |
| Inner ring mounting-hole count (ni)         | 24                                                          |
| Inner ring mounting-hole specification (Mi) | M12                                                         |
| PERFORMANCE                                 |                                                             |
| Basic static axial load rating (C0a)        | 970 kN                                                      |
| Static tilting moment rating (M0r)          | 92 kNm                                                      |
| MISCELLANEOUS                               |                                                             |
| Pattern (Schema)                            | B                                                           |
| PERFORMANCE RATINGS                         |                                                             |
| Rating Axial Static                         | 970 kN   Not simultaneous with other listed dynamic ratings |
| Rating Tilting Moment Static                | 92 kNm   Not simultaneous with other listed dynamic ratings |
| MOUNTING INTERFACES                         |                                                             |
| Outer ring mounting                         | 20 holes - 20; M12                                          |
| Inner ring mounting                         | 24 holes - 24; M12                                          |

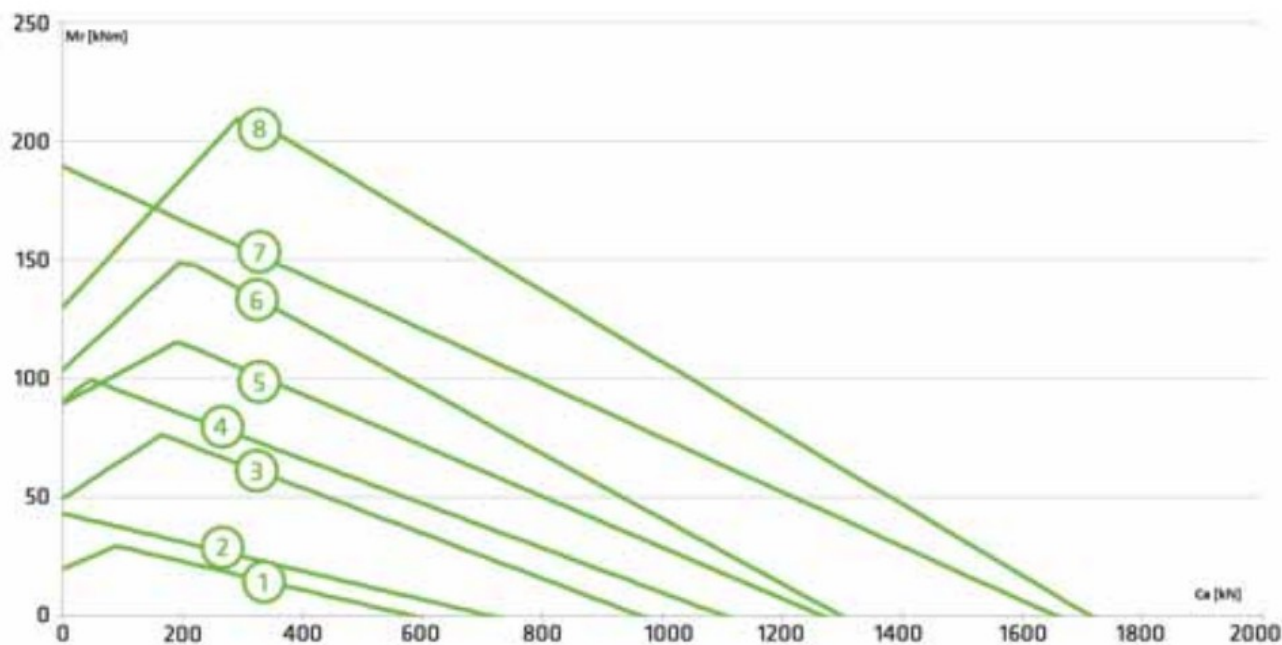
Complete Product Data

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

| GEAR INTERFACE            |                                                                                                                      |
|---------------------------|----------------------------------------------------------------------------------------------------------------------|
| Integral gear             | Not applicable - ungeared bearing                                                                                    |
| SOURCE TRACEABILITY       |                                                                                                                      |
| Source document code      | LA-LEONESSA-UNGEARED-CATALOG-2017                                                                                    |
| Source file               | SLEWING-BEARINGS-WITHOUT-GEAR.pdf                                                                                    |
| PDF page                  | 4                                                                                                                    |
| Printed page              | 4                                                                                                                    |
| Source language           | EN                                                                                                                   |
| Original unit system      | Metric                                                                                                               |
| PUBLISHED TECHNICAL MEDIA |                                                                                                                      |
| Load Curve Chart          | la-leonessa-1s-static_load_curve.webp   SHA-256:<br>713d02f616f09913cdcc02f3aeffc4a1730f28dceaa348c35af5e5c7d669a49c |
| Outline Drawing           | la-leonessa-1s-drawing.webp   SHA-256:<br>4a923085cb91a56ef5e6fb7c569b7ef7d45a30c435f21fe886282908e4c75ec4           |

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.



la-leonessa-1s-static\_load\_curve.webp | SHA-256:  
713d02f616f09913cdcc02f3aeffc4a1730f28dceaa348c35af5e5c7d669a49c

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****BYZ2VRU7YV2NPMNTTKP7AK2QO****SOURCE DOCUMENT****LA-LEONESSA-UNGEARED-CATALOG-2017****SOURCE FILE****SLEWING-BEARINGS-WITHOUT-GEAR.pdf****SOURCE LOCATION****PDF page 4 | Printed page 4****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](mailto:jovi@merydom.com) | Email: [andi@merydom.com](mailto:andi@merydom.com) | WhatsApp: +86 17705201170Product page: <https://rotnex.com/pt/produtos/rolamentos-de-giro-de-substituicao/la-leonessa/vs050a03/>

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