Factory-Verified Replacement

MERYDOM VE313A99

Certified for interchange with La Leonessa VE313A99. 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
VE313A99

REFERENCE
La Leonessa VE313A99

SERIES
1SE Series

STRUCTURE
Sfere a quattro punti di contatto

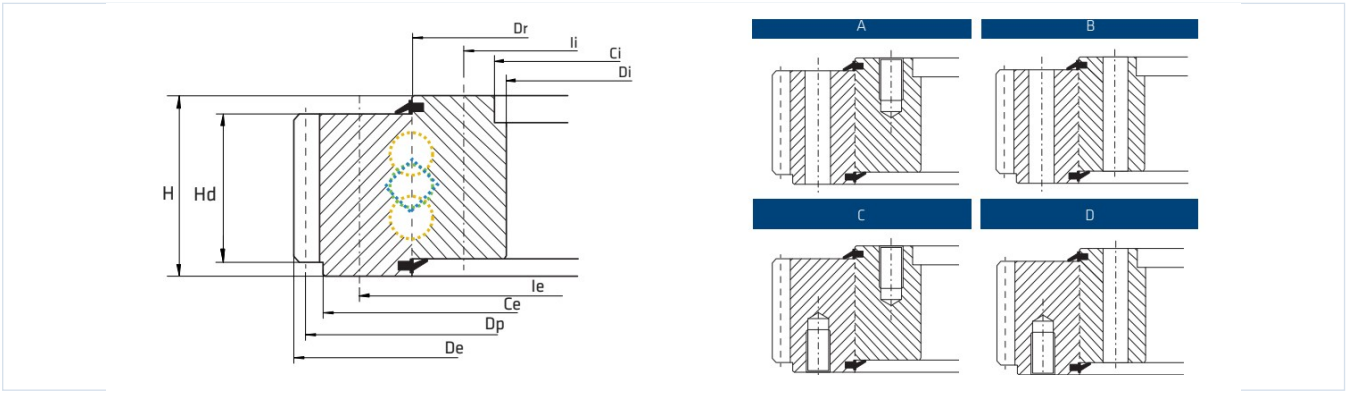
OVERALL OD
3,133.2 mm

OVERALL ID
2,764 mm

OVERALL HEIGHT
110 mm

GEAR
Dentatura esterna

Published Technical Drawing



la-leonessa-1se-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	VE313A99
Certified interchangeable with	La Leonessa VE313A99
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	CVYTWFA7OQHIV5EWUVMNGN6CI5
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	1SE Series
Reference model	VE313A99
Bearing structure	Sfere a quattro punti di contatto
Gear arrangement	Dentatura esterna
DIMENSION	
Mass (P)	1.105 kg
Overall outside diameter (De)	3.133,2 mm
Overall inside diameter (Di)	2.764 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 height (H)	110 mm
Dim Dr (Dr)	2.905,5 mm
MOUNTING	
Outer ring bolt circle (Ie)	2.995 mm
Outer ring mounting-hole count (ne)	60
Outer ring mounting-hole specification (Me)	M24
Inner ring bolt circle (Ii)	2.816 mm
Inner ring mounting-hole count (ni)	60
Inner ring mounting-hole specification (Mi)	M24
GEAR	
Gear module (m)	14 mm
Gear tooth count (z)	220
Addendum modification product x*m (xm)	14 mm
Liebherr catalogue gear dimension k*m (km)	1,4 mm
Gear pitch diameter (Dp)	3.108 mm
Gear Tooth Height (Hd)	100 mm
PERFORMANCE	
Basic static axial load rating (C0a)	12.920 kN
Static tilting moment rating (M0r)	9.457 kNm
Normal tooth force (Fnom)	161 kN

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 (CONTINUED)	
Maximum tooth force (Fmax)	322 kN
MISCELLANEOUS	
Pattern (Schema)	B
PERFORMANCE RATINGS	
Rating Axial Static	12.920 kN | Not simultaneous with other listed dynamic ratings
Rating Tilting Moment Static	9.457 kNm | Not simultaneous with other listed dynamic ratings
Rating Tooth Force Normal	161 kN | Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	322 kN | Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	60 holes - 60; M24
Inner ring mounting	60 holes - 60; M24
GEAR INTERFACE	
Pitch system	module
Module reference	14 mm
Number of teeth	220
SOURCE TRACEABILITY	
Source document code	LA-LEONESSA-EXTERNAL-GEAR-CATALOG-2017
Source file	SLEWING-BEARINGS-WITH-EXTERNAL-GEAR.pdf
PDF page	12
Printed page	12
Source language	EN

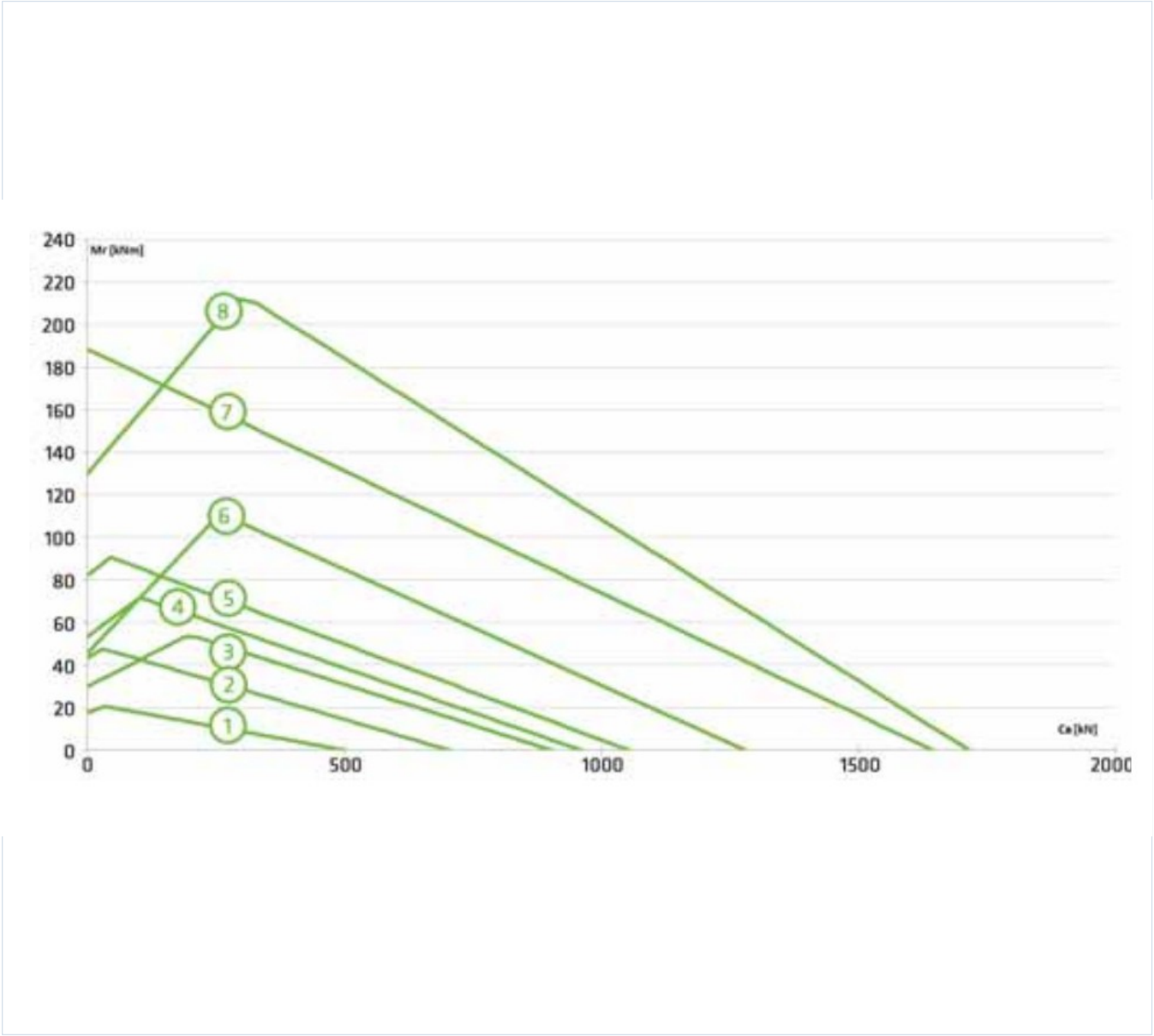
Complete Product Data

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)	
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	la-leonessa-1se-static_load_curve.webp | SHA-256: 62bcb1797791d738ca65eca2203a02e0957321a0ae736fda2a8e171090a981e9
Outline Drawing	la-leonessa-1se-drawing.webp | SHA-256: 9def12f376fbd9bc222f66ab0503412bd5a475fdfe624e4dbfe0ca549ea4d61f

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-1se-static_load_curve.webp | SHA-256: 62bcb1797791d738ca65eca2203a02e0957321a0ae736fda2a8e171090a981e9

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

CVYTWFA7OQHIV5EWUVMNGN6CI5

SOURCE DOCUMENT

LA-LEONESSA-EXTERNAL-GEAR-CATALOG-2017

SOURCE FILE

SLEWING-BEARINGS-WITH-EXTERNAL-GEAR.pdf

SOURCE LOCATION

PDF page 12 | Printed page 12

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/it/prodotti/cuscinetti-di-rotazione-sostitutivi/la-leonessa/ve313a99/