

Factory-Verified Replacement

MERYDOM VE031A14

Certified for interchange with La Leonessa VE031A14. 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

VE031A14

SERIES

1SE Series

OVERALL OD

313.5 mm

OVERALL HEIGHT

50 mm

REFERENCE

La Leonessa VE031A14

STRUCTURE

Four-point contact ball

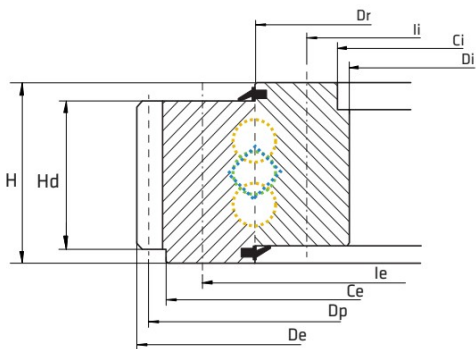
OVERALL ID

145 mm

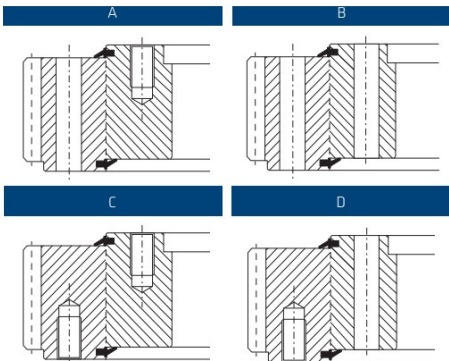
GEAR

External gear

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	VE031A14
Certified interchangeable with	La Leonessa VE031A14
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	PR5UFPRR7TPTUALO6HSQTFEVQJ
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	VE031A14
Bearing structure	Four-point contact ball
Gear arrangement	External gear
DIMENSION	
Mass (P)	18 kg
Overall outside diameter (De)	313.5 mm
Overall inside diameter (Di)	145 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	50 mm
Dim Dr (Dr)	224 mm
MOUNTING	
Outer ring bolt circle (Ie)	270 mm
Outer ring mounting-hole count (ne)	16
Outer ring mounting-hole specification (Me)	M12
Inner ring bolt circle (Ii)	175 mm
Inner ring mounting-hole count (ni)	16-1
Inner ring mounting-hole specification (Mi)	M12
GEAR	
Gear module (m)	4.5 mm
Gear tooth count (z)	68
Liebherr catalogue gear dimension k*m (km)	0.75 mm
Gear pitch diameter (Dp)	306 mm
Gear Tooth Height (Hd)	44 mm
PERFORMANCE	
Basic static axial load rating (C0a)	500 kN
Static tilting moment rating (M0r)	22 kNm
Normal tooth force (Fnom)	19 kN
Maximum tooth force (Fmax)	38 kN

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MISCELLANEOUS	
Pattern (Schema)	B
PERFORMANCE RATINGS	
Rating Axial Static	500 kN Not simultaneous with other listed dynamic ratings
Rating Tilting Moment Static	22 kNm Not simultaneous with other listed dynamic ratings
Rating Tooth Force Normal	19 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	38 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	16 holes - 16; M12
Inner ring mounting	16 holes - 16-1; M12
GEAR INTERFACE	
Pitch system	module
Module reference	4.5 mm
Number of teeth	68
SOURCE TRACEABILITY	
Source document code	LA-LEONESSA-EXTERNAL-GEAR-CATALOG-2017
Source file	SLEWING-BEARINGS-WITH-EXTERNAL-GEAR.pdf
PDF page	4
Printed page	4
Source language	EN
Original unit system	Metric

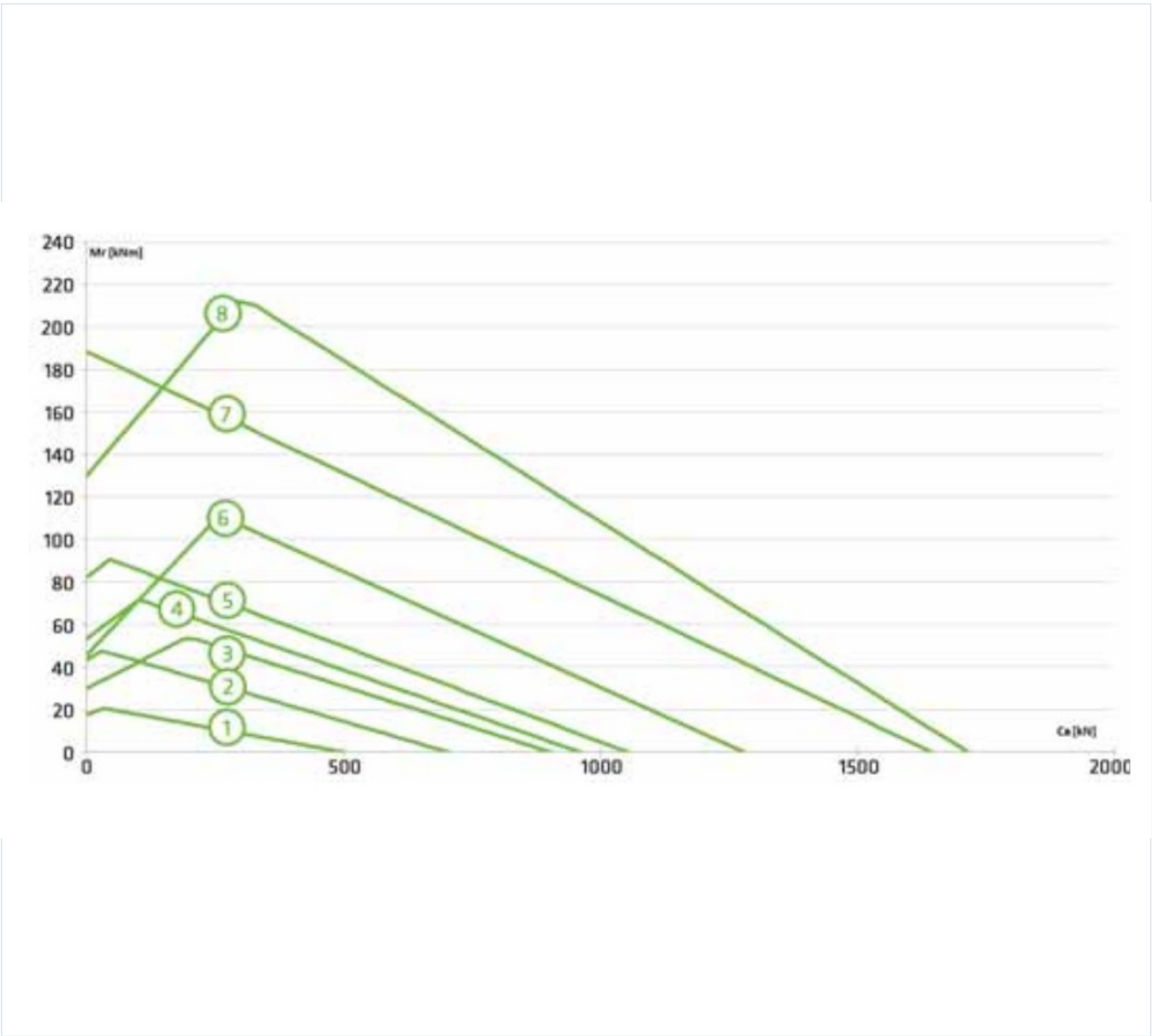
Complete Product Data

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

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 PR5UFPRR7TPTUALO6HSQTFEVQJ	SOURCE DOCUMENT LA-LEONESSA-EXTERNAL-GEAR-CATALOG-2017
SOURCE FILE SLEWING-BEARINGS-WITH-EXTERNAL-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 | Email: andi@merydom.com | WhatsApp: +86 17705201170

Product page: <https://rotnex.com/products/slewing-bearing-replacements/la-leonessa/ve031a14/>

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