Factory-Verified Replacement

MERYDOM VE114A05

Certified for interchange with La Leonessa VE114A05. 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
VE114A05

REFERENCE
La Leonessa VE114A05

SERIES
1SE Series

STRUCTURE
Four-point contact ball

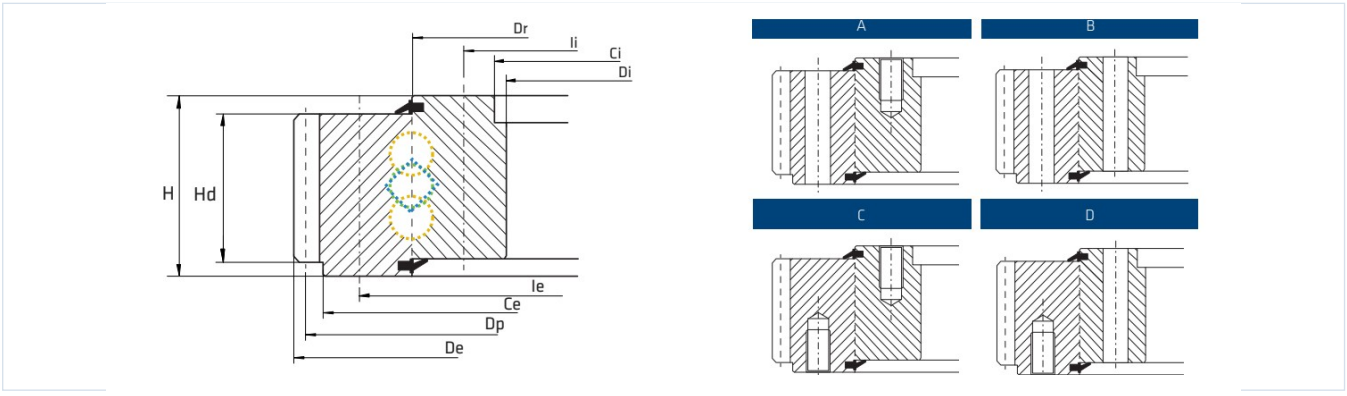
OVERALL OD
1,144 mm

OVERALL ID
869 mm

OVERALL HEIGHT
100 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	VE114A05
Certified interchangeable with	La Leonessa VE114A05
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	KGUIOBQT5MLSDN4P7TLNX4EQQS
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	VE114A05
Bearing structure	Four-point contact ball
Gear arrangement	External gear
DIMENSION	
Mass (P)	223 kg
Overall outside diameter (De)	1,144 mm
Overall inside diameter (Di)	869 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	100 mm
Dim Dr (Dr)	979.5 mm
Dim Centering External (Ce)	985 +0,4/0 mm
Dim Centering Internal (Ci)	870 +0,4/0 mm
MOUNTING	
Outer ring bolt circle (Ie)	1,050 mm
Outer ring mounting-hole count (ne)	36
Outer ring mounting-hole specification (Me)	M20
Inner ring bolt circle (Ii)	910 mm
Inner ring mounting-hole count (ni)	36
Inner ring mounting-hole specification (Mi)	M20
GEAR	
Gear module (m)	10 mm
Gear tooth count (z)	111
Addendum modification product x*m (xm)	8 mm
Liebherr catalogue gear dimension k*m (km)	1 mm
Gear pitch diameter (Dp)	1,126 mm
Gear Tooth Height (Hd)	85 mm
PERFORMANCE	
Basic static axial load rating (C0a)	3,450 kN

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PERFORMANCE (CONTINUED)	
Static tilting moment rating (M0r)	675 kNm
Normal tooth force (Fnom)	87 kN
Maximum tooth force (Fmax)	174 kN
MISCELLANEOUS	
Pattern (Schema)	B
PERFORMANCE RATINGS	
Rating Axial Static	3,450 kN | Not simultaneous with other listed dynamic ratings
Rating Tilting Moment Static	675 kNm | Not simultaneous with other listed dynamic ratings
Rating Tooth Force Normal	87 kN | Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	174 kN | Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	36 holes - 36; M20
Inner ring mounting	36 holes - 36; M20
GEAR INTERFACE	
Pitch system	module
Module reference	10 mm
Number of teeth	111
SOURCE TRACEABILITY	
Source document code	LA-LEONESSA-EXTERNAL-GEAR-CATALOG-2017
Source file	SLEWING-BEARINGS-WITH-EXTERNAL-GEAR.pdf
PDF page	8

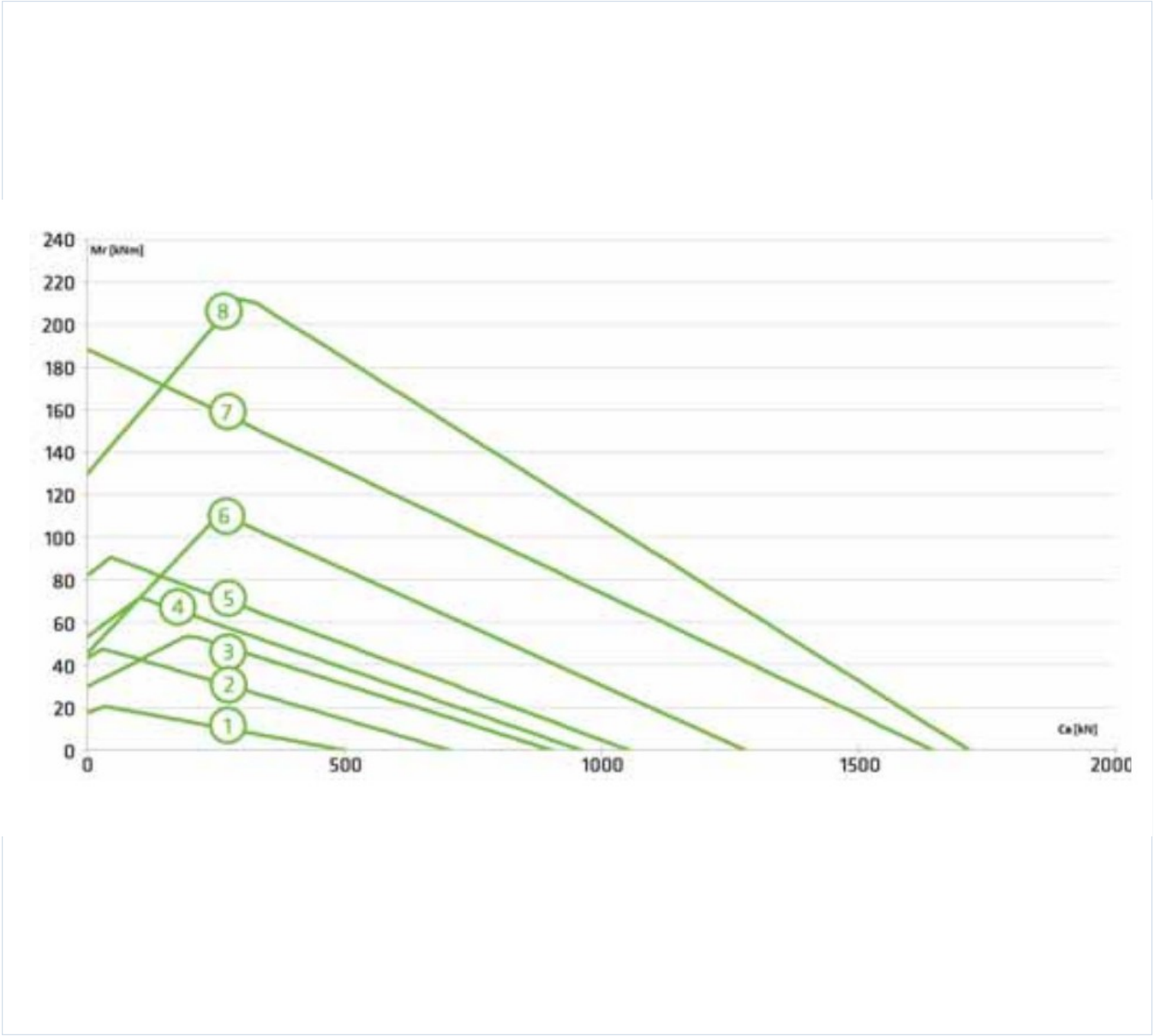
Complete Product Data

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)	
Printed page	8
Source language	EN
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

KGUIOBQT5MLSDN4P7TLNX4EQQS

SOURCE DOCUMENT

LA-LEONESSA-EXTERNAL-GEAR-CATALOG-2017

SOURCE FILE

SLEWING-BEARINGS-WITH-EXTERNAL-GEAR.pdf

SOURCE LOCATION

PDF page 8 | Printed page 8

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/la-leonessa/ve114a05/