

Factory-Verified Replacement

MERYDOM 31-0411-01

Certified for interchange with ROLLIX 31-0411-01. 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

31-0411-01

REFERENCE

ROLLIX 31-0411-01

SERIES

31 Series

STRUCTURE

Rolamento de esferas de série leve

OVERALL OD

505 mm

OVERALL ID

342 mm

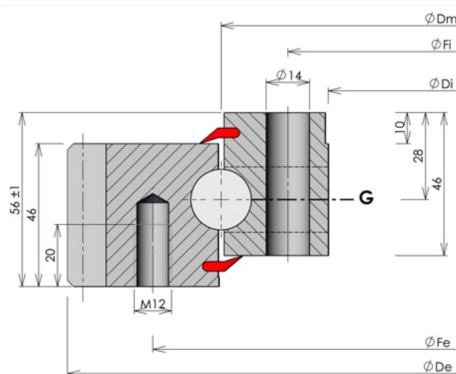
OVERALL HEIGHT

56 mm

GEAR

Engrenagem externa

Published Technical Drawing



rollix-page-094-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	31-0411-01
Certified interchangeable with	ROLLIX 31-0411-01
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	STOAP2LRUPSF3VPLD45PF34SBT
MATERIALS	
Configurable ring material options	42CrMo / 50Mn
Seal material	NBR - Nitrile rubber
Configurable spacer material options	Engineering nylon / Brass
IDENTIFICATION	
Reference brand	ROLLIX
Reference series	31 Series
Reference model	31-0411-01
Bearing structure	Rolamento de esferas de s rie leve
Gear arrangement	Engrenagem externa
DIMENSION	
Overall height (HT)	56 mm
Overall outside diameter (Dia De)	505 mm
Outer ring height (He)	46 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 inside diameter (Dia Di)	342 mm
Inner ring height (Hi)	46 mm
Assembly weight (Weight)	32 kg
MOUNTING	
Outer ring pilot diameter (Dia Ce)	412,2 mm
Inner ring pilot diameter (Dia Ci)	344 mm
Outer ring hole type (External ring hole type)	Bd
Outer ring bolt circle (Dia Fe)	455 mm
Outer ring mounting-hole count (Ne)	20
Outer ring mounting-hole specification (Dhe)	M12 mm
Inner ring hole type (Inner ring hole type)	Th
Inner ring bolt circle (Dia Fi)	368 mm
Inner ring mounting-hole count (Ni)	24
Inner ring mounting-hole specification (Dhi)	14 mm
GEAR	
Gear module (Module)	5 mm
Gear tooth count (Z)	99
Gear face width (W)	46 mm
PERFORMANCE	
Gear capacity, unhardened (Gear capacity unhardened)	34 kN

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MISCELLANEOUS	
Ring with greasing holes (Ring with greasing holes)	I
Greasing hole type (Greasing hole type)	R
PERFORMANCE RATINGS	
Rating Gear Capacity Unhardened	34 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	20 holes - External ring hole type Bd; Dhe M12 mm
Inner ring mounting	24 holes - Inner ring hole type Th; Dhi 14 mm
GEAR INTERFACE	
Pitch system	module
Module reference	5 mm
Number of teeth	99
SOURCE TRACEABILITY	
Source document code	ROLLIX-CATALOGUE-SLEWING-RINGS-2024-07
Source file	ROLLIX.pdf
PDF page	94
Printed page	94
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	rollix-page-094-curve.webp SHA-256: 59a228fd21bc429c8d5e5217e49b162bd65d2523d771cd7ea10d3899a3f0817f

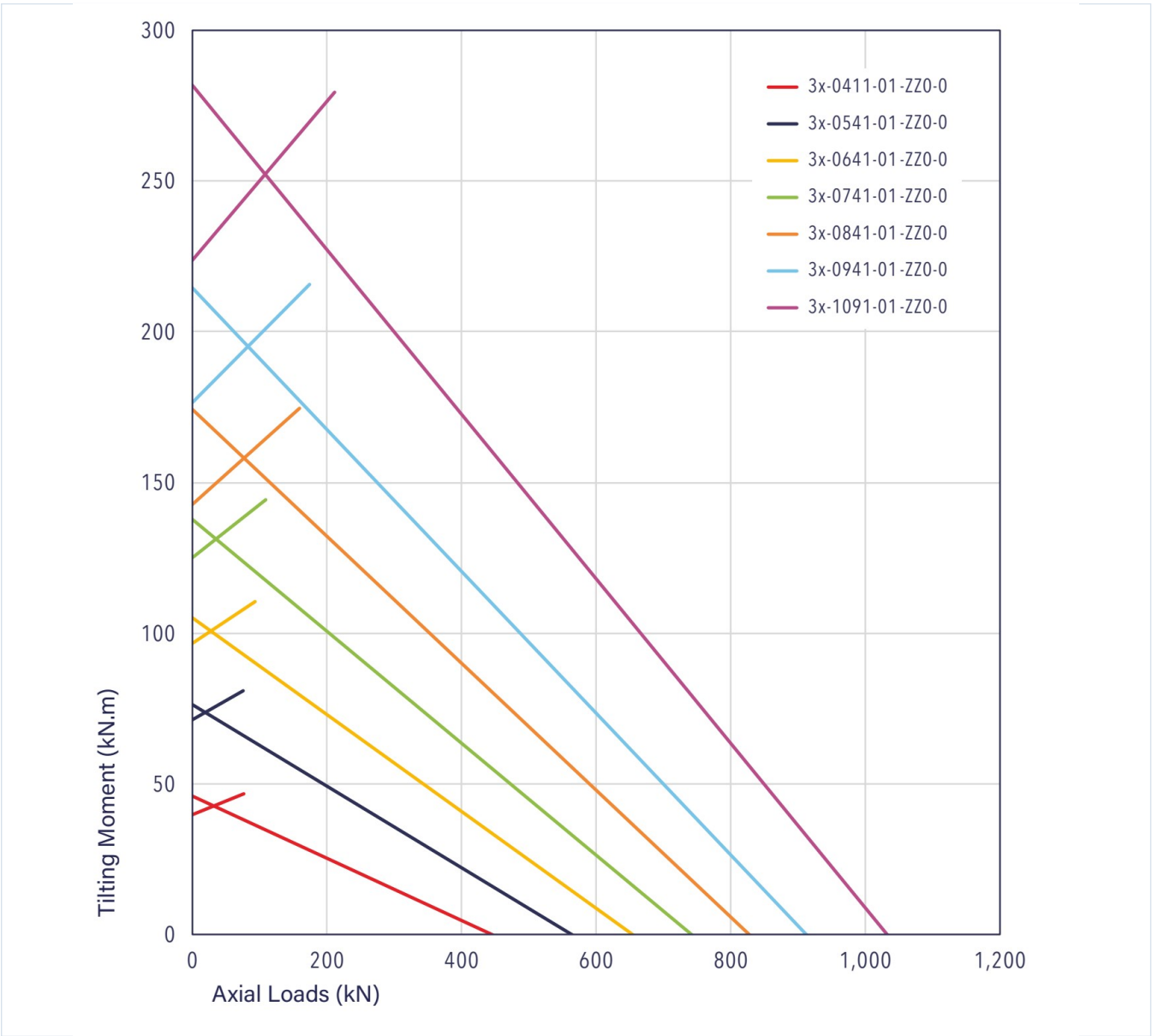
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PUBLISHED TECHNICAL MEDIA (CONTINUED)	
Outline Drawing	rollix-page-094-drawing.webp SHA-256: 1bcd070a6fa5e4a088bd20a328019fdbfbddb0357aee2c40954f5ea5b301a256

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.



rollix-page-094-curve.webp | SHA-256: 59a228fd21bc429c8d5e5217e49b162bd65d2523d771cd7ea10d3899a3f0817f

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 STOAP2LRUPSF3VPLD45PF34SBT	SOURCE DOCUMENT ROLLIX-CATALOGUE-SLEWING-RINGS-2024-07
SOURCE FILE ROLLIX.pdf	SOURCE LOCATION PDF page 94 Printed page 94
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/pt/produtos/rolamentos-de-giro-de-substituicao/rollix/31-0411-01/>

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