

Factory-Verified Replacement

MERYDOM 11-25 0309/1-03312

Certified for interchange with IMO 11-25 0309/1-03312.  
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

11-25 0309/1-03312

REFERENCE

IMO 11-25 0309/1-03312

SERIES

OTHER\_STANDARD\_BALL Series

STRUCTURE

Esferas de contato de quatro pontos

OVERALL OD

mm

OVERALL ID

mm

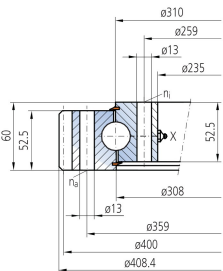
OVERALL HEIGHT

mm

GEAR

Engrenagem externa

Published Technical Drawing



imo-11250309103312-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                        | 11-25 0309/1-03312                     |
| Certified interchangeable with       | IMO 11-25 0309/1-03312                 |
| Verification status                  | Level 3 - MERYDOM Engineering Verified |
| Reviewed by                          | MERYDOM Engineering Department         |
| Public record UID                    | JCYOKXUFRZ5J6GNYJJN4HBLRWM             |
| MATERIALS                            |                                        |
| Configurable ring material options   | 42CrMo / 50Mn                          |
| Seal material                        | NBR - Nitrile rubber                   |
| Configurable spacer material options | Engineering nylon / Brass              |
| IDENTIFICATION                       |                                        |
| Reference brand                      | IMO                                    |
| Reference series                     | OTHER_STANDARD_BALL Series             |
| Reference model                      | 11-25 0309/1-03312                     |
| Bearing structure                    | Esferas de contato de quatro pontos    |
| Gear arrangement                     | Engrenagem externa                     |
| DIMENSION                            |                                        |
| Assembly weight (G)                  | 7,5 kg                                 |
| MOUNTING                             |                                        |
| Outer ring mounting-hole count (na)  | 16                                     |

# 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.

| MOUNTING (CONTINUED)                              |                                                             |
|---------------------------------------------------|-------------------------------------------------------------|
| Inner ring mounting-hole count (ni)               | 15*                                                         |
| GEAR                                              |                                                             |
| Gear module (m)                                   | 4 mm                                                        |
| Gear tooth count (z)                              | 62                                                          |
| Addendum modification coefficient (x)             | 0,5                                                         |
| PERFORMANCE                                       |                                                             |
| Permitted circumferential force, normal (fz_norm) | 8 kN                                                        |
| Permitted circumferential force, maximum (fz_max) | 16 kN                                                       |
| Static radial load rating (Co_rad)                | 143 kN                                                      |
| Static axial load rating (Co_ax)                  | 384 kN                                                      |
| Dynamic radial load rating (C_rad)                | 121 kN                                                      |
| Dynamic axial load rating (C_ax)                  | 141 kN                                                      |
| PERFORMANCE RATINGS                               |                                                             |
| Fz Norm                                           | 8 kN   Not simultaneous with other listed dynamic ratings   |
| Fz Max                                            | 16 kN   Not simultaneous with other listed dynamic ratings  |
| Co Rad                                            | 143 kN   Not simultaneous with other listed dynamic ratings |
| Co Ax                                             | 384 kN   Not simultaneous with other listed dynamic ratings |
| C Rad                                             | 121 kN   Not simultaneous with other listed dynamic ratings |
| C Ax                                              | 141 kN   Not simultaneous with other listed dynamic ratings |
| MOUNTING INTERFACES                               |                                                             |

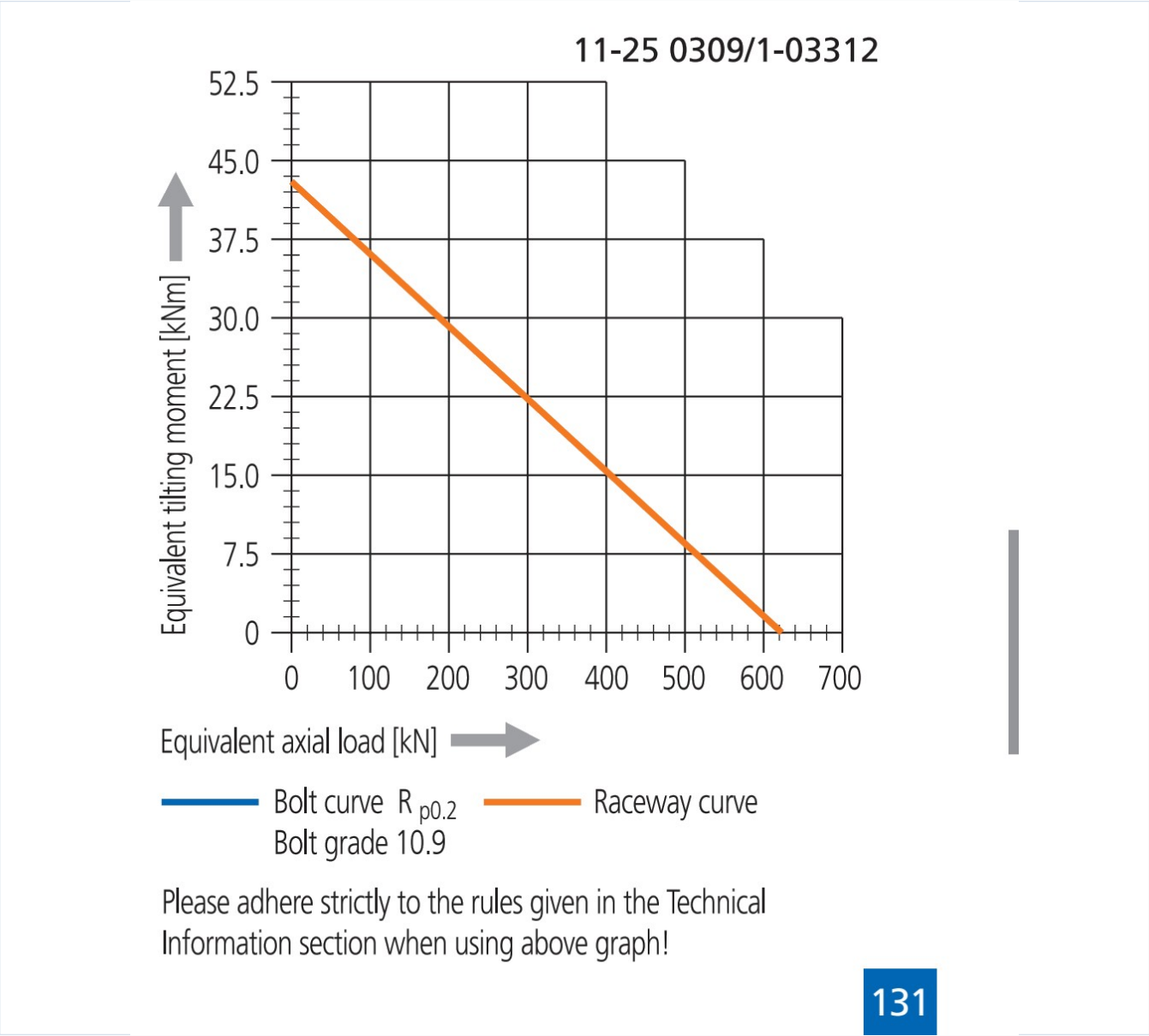
## Complete Product Data

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

| MOUNTING INTERFACES (CONTINUED) |                                                                                                                |
|---------------------------------|----------------------------------------------------------------------------------------------------------------|
| Outer ring mounting             | 16 holes - See source drawing                                                                                  |
| Inner ring mounting             | 15 holes - See source drawing                                                                                  |
| GEAR INTERFACE                  |                                                                                                                |
| Pitch system                    | module                                                                                                         |
| Module reference                | 4 mm                                                                                                           |
| Number of teeth                 | 62                                                                                                             |
| SOURCE TRACEABILITY             |                                                                                                                |
| Source document code            | IMO_OTHER_STANDARD_BALL_EN                                                                                     |
| Source file                     | imo_weitere_standard-kugeldrehverbindungen-en.pdf                                                              |
| PDF page                        | 15                                                                                                             |
| Printed page                    | Not published                                                                                                  |
| Source language                 | EN                                                                                                             |
| Original unit system            | Metric                                                                                                         |
| PUBLISHED TECHNICAL MEDIA       |                                                                                                                |
| Load Curve Chart                | imo-11250309103312-curve.webp   SHA-256:<br>0d5d32d7d3d642c6f8429d0dfcc40ff541f2eaa116d2f076f092f57d0e719bc5   |
| Outline Drawing                 | imo-11250309103312-drawing.webp   SHA-256:<br>247197692ae2e7d3403331134054c6f6893c8324e0a629d18538eef070253cc9 |

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.



imo-11250309103312-curve.webp | SHA-256: 0d5d32d7d3d642c6f8429d0dfcc40ff541f2eaa116d2f076f092f57d0e719bc5

Engineering note: final approval must also consider mounting rigidity, bolt capacity, duty cycle, lubrication, temperature, environment and installation conditions.

Source and Verification Traceability

|                                                                                          |                                                                                    |
|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <div>PUBLIC RECORD UID</div> <div>JCYOKXUFRZ5J6GNYJJN4HBLRWM</div>                       | <div>SOURCE DOCUMENT</div> <div>IMO_OTHER_STANDARD_BALL_EN</div>                   |
| <div>SOURCE FILE</div> <div>imo_weitere_standard-kugeldrehverbin<br/>dungen-en.pdf</div> | <div>SOURCE LOCATION</div> <div>PDF page 15   Printed page Not<br/>published</div> |
| <div>VERIFICATION</div> <div>Level 3 - MERYDOM Engineering<br/>Verified</div>            | <div>REVIEWED BY</div> <div>MERYDOM Engineering Department</div>                   |

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/pt/produtos/rolamentos-de-giro-de-substituicao/imo/11-25-0309-1-03312/>

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