

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

Sfere a quattro punti di contatto

OVERALL OD

mm

OVERALL ID

mm

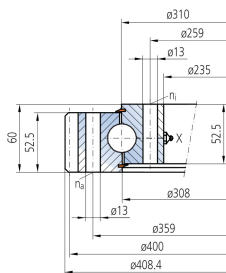
OVERALL HEIGHT

mm

GEAR

Dentatura esterna

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                    | Sfere a quattro punti di contatto      |
| Gear arrangement                     | Dentatura esterna                      |
| 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                               |                                                             |

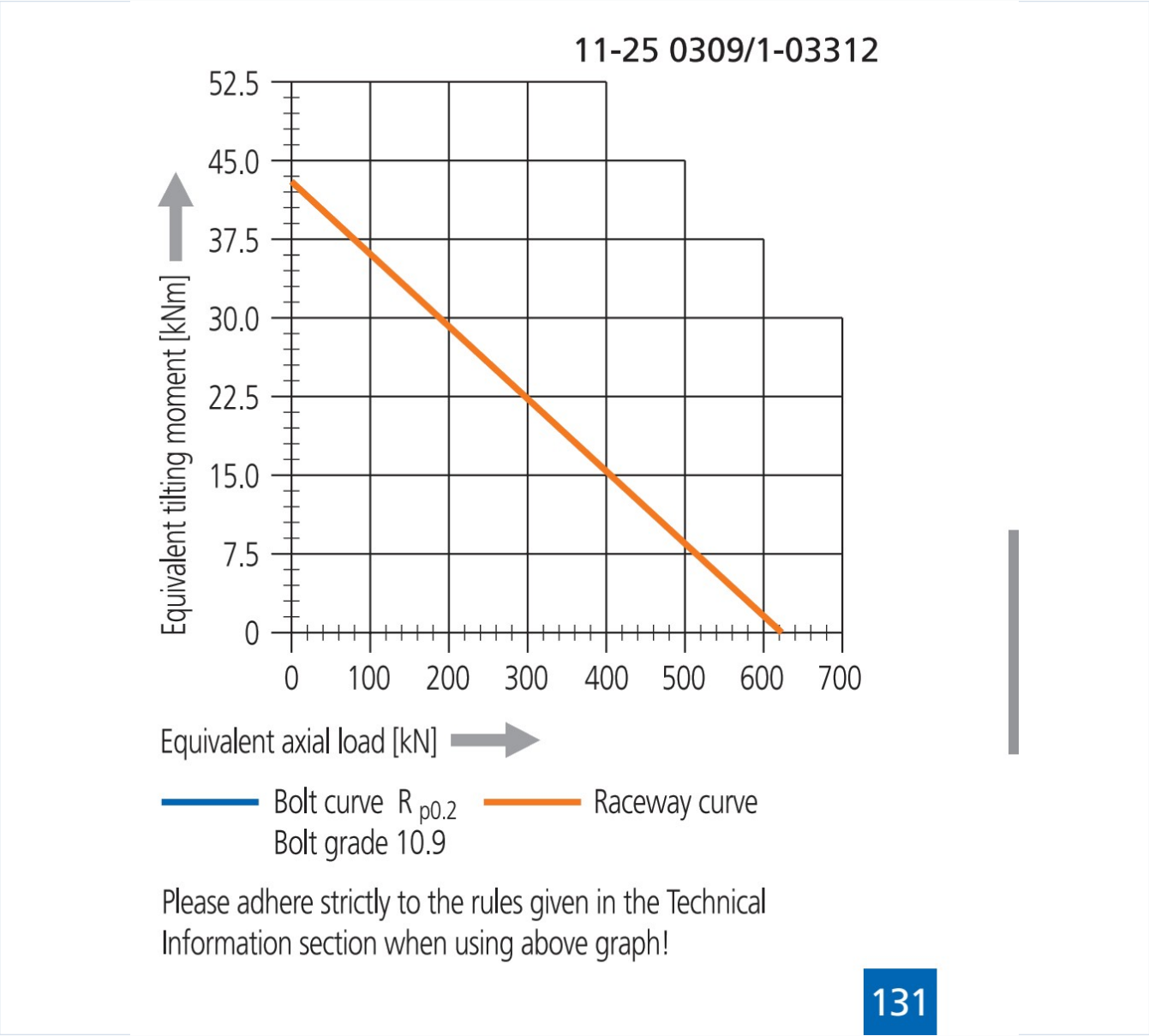
## Complete Product Data

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

### PUBLIC RECORD UID

JCYOKXUFRZ5J6GNYJJN4HBLRWM

### SOURCE DOCUMENT

IMO\_OTHER\_STANDARD\_BALL\_EN

### SOURCE FILE

imo\_weitere\_standard-kugeldrehverbin  
dungen-en.pdf

### SOURCE LOCATION

PDF page 15 | Printed page Not  
published

### 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/imo/11-25-0309-1-03312/>

Trademark and legal notice: referenced brand and model names are used only for identification and cross-reference. MERYDOM is an independent manufacturer and is not affiliated with or endorsed by the referenced brand unless expressly stated.