

Factory-Verified Replacement

MERYDOM 82-40 2199/2-07625

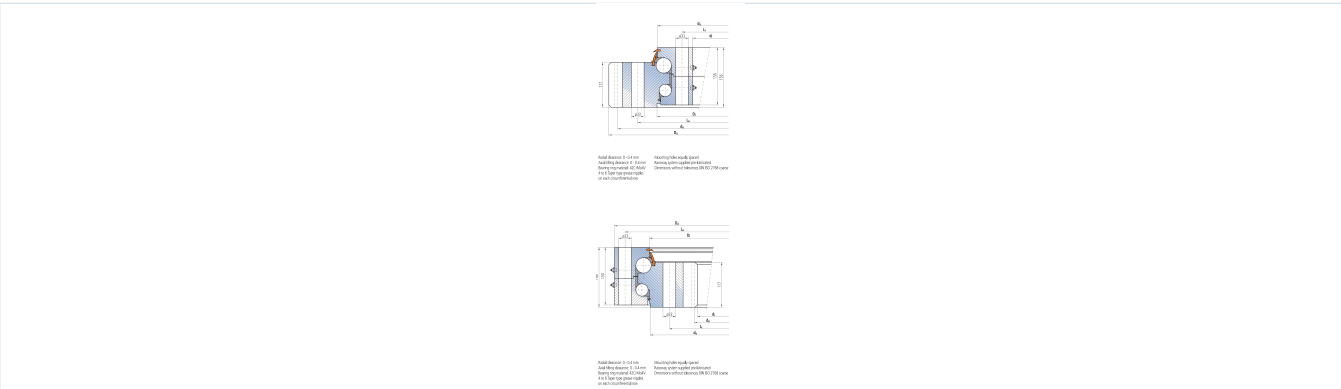
Certified for interchange with IMO 82-40 2199/2-07625.  
This document consolidates the public product record,  
complete published specifications, technical media,  
source traceability and engineering confirmation notes.

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      | REFERENCE                       |
| 82-40 2199/2-07625 | IMO 82-40 2199/2-07625          |
| SERIES             | STRUCTURE                       |
| 840 Series         | Sfere a doppio contatto assiale |
| OVERALL OD         | OVERALL ID                      |
| 2,350 mm           | 1,920 mm                        |
| OVERALL HEIGHT     | GEAR                            |
| mm                 | Dentatura interna               |

Published Technical Drawing



imo-82402199207625-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                        | 82-40 2199/2-07625                     |
| Certified interchangeable with       | IMO 82-40 2199/2-07625                 |
| Verification status                  | Level 3 - MERYDOM Engineering Verified |
| Reviewed by                          | MERYDOM Engineering Department         |
| Public record UID                    | D7IHTZMPBY2BDBO663YTN6FBL              |
| 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                     | 840 Series                             |
| Reference model                      | 82-40 2199/2-07625                     |
| Bearing structure                    | Sfere a doppio contatto assiale        |
| Gear arrangement                     | Dentatura interna                      |
| DIMENSION                            |                                        |
| Overall outside diameter (Da)        | 2.350 mm                               |
| Overall inside diameter (di)         | 1.920 mm                               |
| Assembly weight (G)                  | 1.238 kg                               |

Complete Product Data

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| MOUNTING                                          |                                                             |
|---------------------------------------------------|-------------------------------------------------------------|
| Outer ring bolt circle (La)                       | 2.295 mm                                                    |
| Inner ring bolt circle (Li)                       | 2.065 mm                                                    |
| Outer ring mounting-hole count (na)               | 52                                                          |
| GEAR                                              |                                                             |
| Gear pitch diameter (d)                           | 1.936 mm                                                    |
| Gear module (m)                                   | 16 mm                                                       |
| Gear tooth count (z)                              | 121                                                         |
| Addendum modification coefficient (x)             | -0,5                                                        |
| PERFORMANCE                                       |                                                             |
| Permitted circumferential force, normal (fz_norm) | 178 kN                                                      |
| Permitted circumferential force, maximum (fz_max) | 338 kN                                                      |
| Static radial load rating (Co_rad)                | 2.078 kN                                                    |
| Static axial load rating, tension (Co_ax_T)       | 10.387 kN                                                   |
| Static axial load rating, compression (Co_ax_H)   | 8.535 kN                                                    |
| Dynamic radial load rating (C_rad)                | 532 kN                                                      |
| Dynamic axial load rating, tension (C_ax_T)       | 1.267 kN                                                    |
| Dynamic axial load rating, compression (C_ax_H)   | 1.000 kN                                                    |
| PERFORMANCE RATINGS                               |                                                             |
| Fz Norm                                           | 178 kN   Not simultaneous with other listed dynamic ratings |
| Fz Max                                            | 338 kN   Not simultaneous with other listed dynamic ratings |

## 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.

| PERFORMANCE RATINGS (CONTINUED) |                                                                |
|---------------------------------|----------------------------------------------------------------|
| Co Rad                          | 2.078 kN   Not simultaneous with other listed dynamic ratings  |
| Co Ax T                         | 10.387 kN   Not simultaneous with other listed dynamic ratings |
| Co Ax H                         | 8.535 kN   Not simultaneous with other listed dynamic ratings  |
| C Rad                           | 532 kN   Not simultaneous with other listed dynamic ratings    |
| C Ax T                          | 1.267 kN   Not simultaneous with other listed dynamic ratings  |
| C Ax H                          | 1.000 kN   Not simultaneous with other listed dynamic ratings  |
| MOUNTING INTERFACES             |                                                                |
| Outer ring mounting             | 52 holes - See source drawing                                  |
| Inner ring mounting             | holes - See source drawing                                     |
| GEAR INTERFACE                  |                                                                |
| Pitch system                    | module                                                         |
| Module reference                | 16 mm                                                          |
| Number of teeth                 | 121                                                            |
| SOURCE TRACEABILITY             |                                                                |
| Source document code            | IMO_DOUBLE_AXIAL_EN                                            |
| Source file                     | imo_doppel-axial-drehverbindungen-en.pdf                       |
| PDF page                        | 3                                                              |
| Printed page                    | Not published                                                  |
| Source language                 | EN                                                             |
| Original unit system            | Metric                                                         |

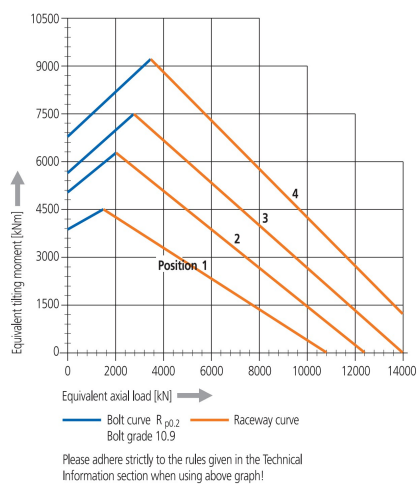
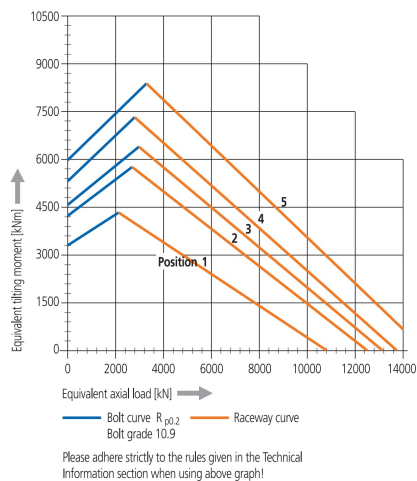
Complete Product Data

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| PUBLISHED TECHNICAL MEDIA |                                                                                                                |
|---------------------------|----------------------------------------------------------------------------------------------------------------|
| Load Curve Chart          | imo-82402199207625-curve.webp   SHA-256:<br>d974974b85b828218d457eb64135dd69f9e8145051cdff9b20b2fa8914808aef   |
| Outline Drawing           | imo-82402199207625-drawing.webp   SHA-256:<br>72f379d99754407dadfdb948cf3cb00e6c5701f0c9558abe84e87dde521323c5 |

## 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-82402199207625-curve.webp | SHA-256: d974974b85b828218d457eb64135dd69f9e8145051cdf9b20b2fa8914808aef

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

**D7IHTZMPBY2BDBO663YTN6FBL**

### SOURCE DOCUMENT

**IMO\_DOUBLE\_AXIAL\_EN**

### SOURCE FILE

**imo\_doppel-axial-drehverbindungen-en.pdf**

### SOURCE LOCATION

**PDF page 3 | 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](mailto:jovi@merydom.com) | Email: [andi@merydom.com](mailto:andi@merydom.com) | WhatsApp: +86 17705201170

Product page: <https://rotnex.com/it/prodotti/cuscinetti-di-rotazione-sostitutivi/imo/82-40-2199-2-07625/>

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