

Factory-Verified Replacement

MERYDOM 230.21.1075.013

Certified for interchange with Rothe Erde 230.21.1075.013. 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

230.21.1075.013

REFERENCE

Rothe Erde 230.21.1075.013

SERIES

23 Series

STRUCTURE

Rolamento perfilado

OVERALL OD

1,197 mm

OVERALL ID

985 mm

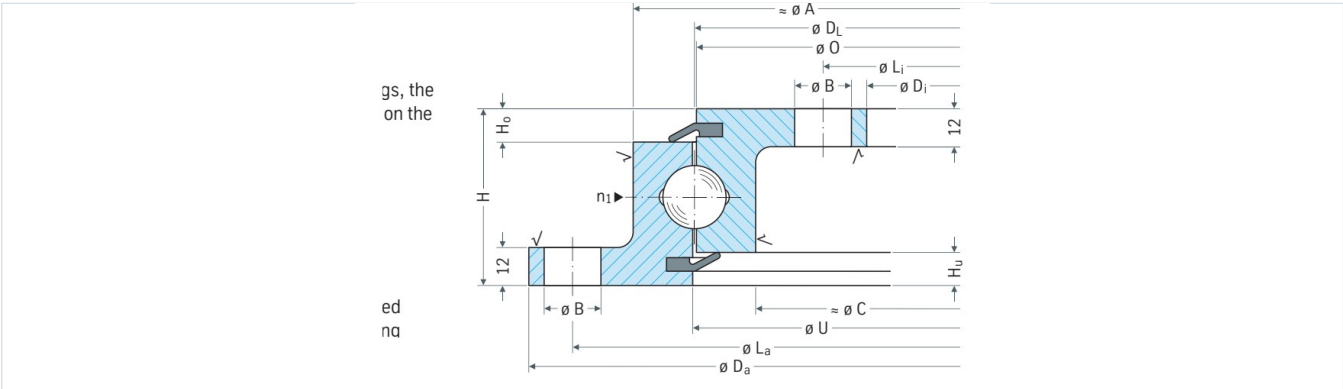
OVERALL HEIGHT

56 mm

GEAR

Sem engrenagem

Published Technical Drawing



page-050-outline.png

## 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                        | 230.21.1075.013                        |
| Certified interchangeable with       | Rothe Erde 230.21.1075.013             |
| Verification status                  | Level 3 - MERYDOM Engineering Verified |
| Reviewed by                          | MERYDOM Engineering Department         |
| Public record UID                    | JXU7G6TPV5BJ3MGFNMOXBGPOB6             |
| MATERIALS                            |                                        |
| Configurable ring material options   | 42CrMo / 50Mn                          |
| Seal material                        | NBR - Nitrile rubber                   |
| Configurable spacer material options | Engineering nylon / Brass              |
| IDENTIFICATION                       |                                        |
| Reference brand                      | Rothe Erde                             |
| Reference series                     | 23 Series                              |
| Reference model                      | 230.21.1075.013                        |
| Bearing structure                    | Rolamento perfilado                    |
| Gear arrangement                     | Sem engrenagem                         |
| DIMENSION                            |                                        |
| Raceway diameter (DL)                | 1.094 mm                               |
| Overall outside diameter (Da)        | 1197 - 0,17 mm                         |
| Overall inside diameter (Di)         | 985 + 0,14 mm                          |

## Complete Product Data

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| DIMENSION (CONTINUED)                                     |                       |
|-----------------------------------------------------------|-----------------------|
| Overall height (H)                                        | 56 mm                 |
| Catalog diameter O (O)                                    | 1.092,5 mm            |
| Catalog diameter U (U)                                    | 1.095,5 mm            |
| Catalog diameter A (A)                                    | 1.133 mm              |
| Catalog diameter C (C)                                    | 1.055 mm              |
| Lower ring offset Hu (Hu)                                 | 10,5 mm               |
| Upper ring offset Ho (Ho)                                 | 10,5 mm               |
| Assembly weight (Weight)                                  | 61,9 kg               |
| Combined axial/radial bearing play range (Y_axial_radial) | 0 to 0,06 mm          |
| MOUNTING                                                  |                       |
| Outer ring bolt circle (La)                               | 1.170 mm              |
| Outer ring mounting-hole count (na)                       | 16                    |
| Outer ring mounting-hole diameter (B_outer)               | 18 mm                 |
| Inner ring bolt circle (Li)                               | 1.012 mm              |
| Inner ring mounting-hole count (ni)                       | 20                    |
| Inner ring mounting-hole diameter (B_inner)               | 18 mm                 |
| MISCELLANEOUS                                             |                       |
| Grease nipple count (n1)                                  | 4                     |
| MOUNTING INTERFACES                                       |                       |
| Outer ring mounting                                       | 16 holes - B_outer 18 |

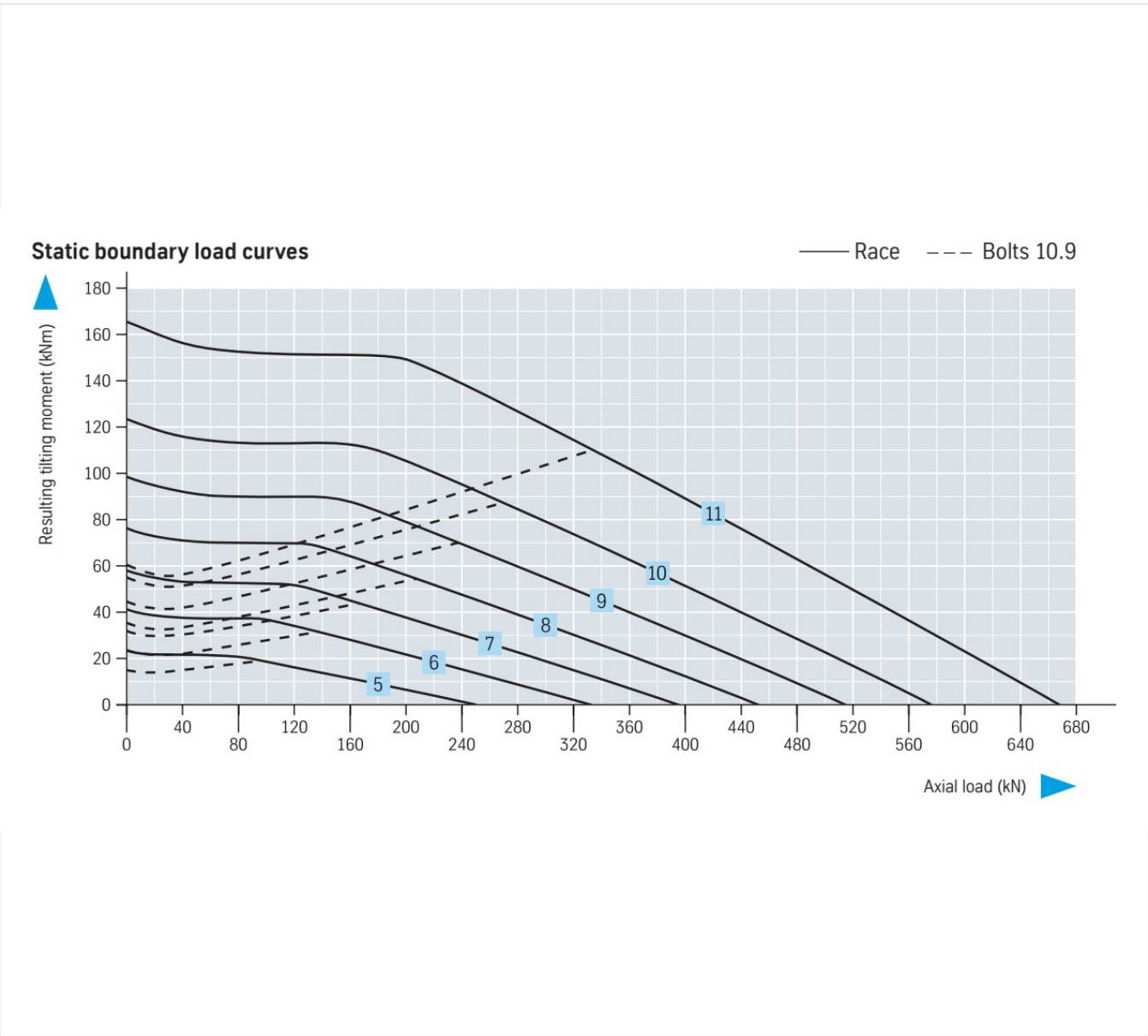
Complete Product Data

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) |                                                                                                         |
|---------------------------------|---------------------------------------------------------------------------------------------------------|
| Inner ring mounting             | 20 holes - B_inner 18                                                                                   |
| GEAR INTERFACE                  |                                                                                                         |
| Integral gear                   | Not applicable - ungeared bearing                                                                       |
| SOURCE TRACEABILITY             |                                                                                                         |
| Source document code            | ROTHE_ERDE_CATALOG_2023                                                                                 |
| Source file                     | Rothe Erde.pdf                                                                                          |
| PDF page                        | 50                                                                                                      |
| Printed page                    | 94-95                                                                                                   |
| Source language                 | EN                                                                                                      |
| Original unit system            | Metric                                                                                                  |
| PUBLISHED TECHNICAL MEDIA       |                                                                                                         |
| Load Curve Chart                | page-050-load-curves.png   SHA-256:<br>7237a9b4ab13d8013bcb7723d750e6b73aeb0a74e0fa6f6740a900fcb456b114 |
| Outline Drawing                 | page-050-outline.png   SHA-256:<br>e53bbd2e0c76cfee43d66c13fe2f04c6cd782eba1bbf16821aeb90c8162c71a8     |

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.



page-050-load-curves.png | SHA-256: 7237a9b4ab13d8013bcb7723d750e6b73aeb0a74e0fa6f6740a900fcb456b114

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****JXU7G6TPV5BJ3MGFNMOXBGPOB6****SOURCE DOCUMENT****ROTHE\_ERDE\_CATALOG\_2023****SOURCE FILE****Rothe Erde.pdf****SOURCE LOCATION****PDF page 50 | Printed page 94-95****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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