

Factory-Verified Replacement

MERYDOM RK6-25N1Z

Certified for interchange with Kaydon RK6-25N1Z. 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

**RK6-25N1Z**

REFERENCE

**Kaydon RK6-25N1Z**

SERIES

**RK Series**

STRUCTURE

**Esferas de contato de quatro pontos**

OVERALL OD

**748.03 mm**

OVERALL ID

**548.64 mm**

OVERALL HEIGHT

**56.007 mm**

GEAR

**Engrenagem interna**

No public model drawing is attached to this record. Submit the application and required interface format for final drawing confirmation.

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                        | RK6-25N1Z                                            |
| Certified interchangeable with       | Kaydon RK6-25N1Z                                     |
| Verification status                  | Level 3 - MERYDOM Engineering Verified               |
| Reviewed by                          | MERYDOM Engineering Department                       |
| Public record UID                    | ZUMRGWZW2ZRSCUTHFSUDQLY5LL                           |
| MATERIALS                            |                                                      |
| Configurable ring material options   | 42CrMo / 50Mn                                        |
| Seal material                        | NBR - Nitrile rubber                                 |
| Configurable spacer material options | Engineering nylon / Brass                            |
| IDENTIFICATION                       |                                                      |
| Reference brand                      | Kaydon                                               |
| Reference series                     | RK Series                                            |
| Reference model                      | RK6-25N1Z                                            |
| Bearing structure                    | Esferas de contato de quatro pontos                  |
| Gear arrangement                     | Engrenagem interna                                   |
| DIMENSION                            |                                                      |
| Overall outside diameter (Do)        | 29.450 in   Metric reference: aproximadamente 748 mm |
| Overall inside diameter (di)         | 21.600 in   Metric reference: aproximadamente 549 mm |
| Outer ring body OD (Dr)              | 26.930 in   Metric reference: aproximadamente 684 mm |

Complete Product Data

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| DIMENSION (CONTINUED)          |                                                                        |
|--------------------------------|------------------------------------------------------------------------|
| Outer ring inner diameter (Di) | 25.280 in   Metric reference: aproximadamente 642,1 mm                 |
| Inner ring outer diameter (do) | 25.200 in   Metric reference: aproximadamente 640 mm                   |
| Overall height (H)             | 2.205 in   Metric reference: aproximadamente 56,01 mm                  |
| Assembly weight (G)            | 106 lb   Metric reference: aproximadamente 48,081 kg                   |
| MOUNTING                       |                                                                        |
| Outer ring bolt circle (Lo)    | 28.380 in   Metric reference: aproximadamente 720,9 mm                 |
| Inner ring bolt circle (Li)    | 23.630 in   Metric reference: aproximadamente 600,2 mm                 |
| GEAR                           |                                                                        |
| Gear pitch diameter (D2)       | 22.000 in   Metric reference: aproximadamente 559 mm                   |
| Diametral pitch (Pd)           | 4                                                                      |
| Gear tooth count (z2)          | 88                                                                     |
| PERFORMANCE                    |                                                                        |
| Maximum gear tooth load (Fz)   | 6400 lbf   Metric reference: aproximadamente 28,47 kN                  |
| Moment load rating (Crm)       | 49800 ft lbf   Metric reference: aproximadamente 67,52 kN m            |
| PERFORMANCE RATINGS            |                                                                        |
| Moment                         | 49800.0000000000 ft lbf   Metric reference: aproximadamente 67,52 kN m |
| Gear Tooth                     | 6400.0000000000 lbf   Metric reference: aproximadamente 28,47 kN       |
| MOUNTING INTERFACES            |                                                                        |
| Outer ring mounting            | 12 holes - 0.688 through, equally spaced                               |
| Inner ring mounting            | 18 holes - 0.500-13 UNC-2B; 0.750 min full thread; equally spaced      |

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| GEAR INTERFACE       |                        |
|----------------------|------------------------|
| Pitch system         | DP                     |
| Diametral pitch      | 4 DP                   |
| Module reference     | 6.35 mm                |
| Number of teeth      | 88                     |
| SOURCE TRACEABILITY  |                        |
| Source document code | KAYDON-CAT390          |
| Source file          | Kaydon_Catalog_390.pdf |
| PDF page             | 51                     |
| Printed page         | 49                     |
| Source language      | EN-US                  |
| Original unit system | Inch                   |

Source and Verification Traceability

|                                                                               |                                                                     |
|-------------------------------------------------------------------------------|---------------------------------------------------------------------|
| <div>PUBLIC RECORD UID</div> <div>ZUMRGWZW2ZRSCUTHFSUDQLY5LL</div>            | <div>SOURCE DOCUMENT</div> <div>KAYDON-CAT390</div>                 |
| <div>SOURCE FILE</div> <div>Kaydon_Catalog_390.pdf</div>                      | <div>SOURCE LOCATION</div> <div>PDF page 51   Printed page 49</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/kaydon/rk6-25n1z/>

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