Factory-Verified Replacement

MERYDOM RK6-16N1Z

Certified for interchange with Kaydon RK6-16N1Z. 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
RK6-16N1Z	**Kaydon RK6-16N1Z**
SERIES	STRUCTURE
RK Series	**Sfere a quattro punti di contatto**
OVERALL OD	OVERALL ID
517.906 mm	**326.39 mm**
OVERALL HEIGHT	GEAR
56.007 mm	**Dentatura 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	RK6-16N1Z
Certified interchangeable with	Kaydon RK6-16N1Z
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	SXMELUC5PB3V7DEHY6NF2YWLP7
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	RK6-16N1Z
Bearing structure	Sfere a quattro punti di contatto
Gear arrangement	Dentatura interna
DIMENSION	
Overall outside diameter (Do)	20.390 in | Metric reference: circa 517,9 mm
Overall inside diameter (di)	12.850 in | Metric reference: circa 326,4 mm
Outer ring body OD (Dr)	17.870 in | Metric reference: circa 453,9 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Outer ring inner diameter (Di)	16.220 in | Metric reference: circa 412 mm
Inner ring outer diameter (do)	16.140 in | Metric reference: circa 410 mm
Overall height (H)	2.205 in | Metric reference: circa 56,01 mm
Assembly weight (G)	65 lb | Metric reference: circa 29,484 kg
MOUNTING	
Outer ring bolt circle (Lo)	19.250 in | Metric reference: circa 489 mm
Inner ring bolt circle (Li)	14.880 in | Metric reference: circa 378 mm
GEAR	
Gear pitch diameter (D2)	13.250 in | Metric reference: circa 336,6 mm
Diametral pitch (Pd)	4
Gear tooth count (z2)	53
PERFORMANCE	
Maximum gear tooth load (Fz)	6800 lbf | Metric reference: circa 30,25 kN
Moment load rating (Crm)	22700 ft lbf | Metric reference: circa 30,78 kN m
PERFORMANCE RATINGS	
Moment	22700.0000000000 ft lbf | Metric reference: circa 30,78 kN m
Gear Tooth	6800.0000000000 lbf | Metric reference: circa 30,25 kN
MOUNTING INTERFACES	
Outer ring mounting	8 holes - 0.688 through, equally spaced
Inner ring mounting	12 holes - 0.500-13 UNC-2B; 0.750 min full thread; equally spaced
GEAR INTERFACE	

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.

GEAR INTERFACE (CONTINUED)	
Pitch system	DP
Diametral pitch	4 DP
Module reference	6.35 mm
Number of teeth	53
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

PUBLIC RECORD UID

SXMELUC5PB3V7DEHY6NF2YWLP7

SOURCE DOCUMENT

KAYDON-CAT390

SOURCE FILE

Kaydon_Catalog_390.pdf

SOURCE LOCATION

PDF page 51 | Printed page 49

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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Product page: https://rotnex.com/it/prodotti/cuscinetti-di-rotazione-sostitutivi/kaydon/rk6-16n1z/