

Factory-Verified Replacement

MERYDOM 16347001

Certified for interchange with Kaydon 16347001. 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

16347001

REFERENCE

Kaydon 16347001

SERIES

XR Series

STRUCTURE

Rolos cruzados

OVERALL OD

2,556.942 mm

OVERALL ID

2,133.6 mm

OVERALL HEIGHT

165.1 mm

GEAR

Engrenagem externa

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	16347001
Certified interchangeable with	Kaydon 16347001
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	SZPPQAW4W366I4ZP6DTYGDHWOP
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	XR Series
Reference model	16347001
Bearing structure	Rolos cruzados
Gear arrangement	Engrenagem externa
DIMENSION	
Overall outside diameter (Do)	100.667 in Metric reference: aproximadamente 2.556,94 mm
Overall inside diameter (di)	84.000 in Metric reference: aproximadamente 2.134 mm
Outer ring body OD (Dr)	98.750 in Metric reference: aproximadamente 2.508,3 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Inner ring body ID (dr)	84.250 in Metric reference: aproximadamente 2.140 mm
Overall height (H)	6.500 in Metric reference: aproximadamente 165 mm
Assembly weight (G)	3240 lb Metric reference: aproximadamente 1.469,639 kg
MOUNTING	
Outer ring bolt circle (Lo)	95.000 in Metric reference: aproximadamente 2.413 mm
Inner ring bolt circle (Li)	87.000 in Metric reference: aproximadamente 2.210 mm
GEAR	
Gear pitch diameter (D2)	100.000 in Metric reference: aproximadamente 2.540 mm
Diametral pitch (Pd)	3
Gear tooth count (z2)	300
PERFORMANCE	
Maximum gear tooth load (Fz)	32030 lbf Metric reference: aproximadamente 142,48 kN
Moment load rating (Crm)	1557670 ft lbf Metric reference: aproximadamente 2.111,92 kN m
PERFORMANCE RATINGS	
Moment	1557670.0000000000 ft lbf Metric reference: aproximadamente 2.111,92 kN m
Gear Tooth	32030.0000000000 lbf Metric reference: aproximadamente 142,48 kN
Dynamic Radial	376230.0000000000 lbf Metric reference: aproximadamente 1.673,55 kN L10: 1,000,000 revolutions Not simultaneous with other listed dynamic ratings
Dynamic Thrust	422960.0000000000 lbf Metric reference: aproximadamente 1.881,42 kN L10: 1,000,000 revolutions Not simultaneous with other listed dynamic ratings
Dynamic Moment	1557670.0000000000 ft lbf Metric reference: aproximadamente 2.111,92 kN m L10: 1,000,000 revolutions Not simultaneous with other listed dynamic ratings

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MOUNTING INTERFACES	
Outer ring mounting	48 holes - 1-8
Inner ring mounting	48 holes - 1.063
GEAR INTERFACE	
Pitch system	DP
Diametral pitch	3 DP
Module reference	8.466667 mm
Number of teeth	300
SOURCE TRACEABILITY	
Source document code	KAYDON-CAT390
Source file	Kaydon_Catalog_390.pdf
PDF page	102
Printed page	100
Source language	EN-US
Original unit system	Inch

Source and Verification Traceability

PUBLIC RECORD UID SZPPQAW4W366I4ZP6DTYGDHWOP	SOURCE DOCUMENT KAYDON-CAT390
SOURCE FILE Kaydon_Catalog_390.pdf	SOURCE LOCATION PDF page 102 Printed page 100
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/pt/produtos/rolamentos-de-giro-de-substituicao/kaydon/16347001/>

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