

Factory-Verified Replacement

MERYDOM 16295001

Certified for interchange with Kaydon 16295001. 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

16295001

REFERENCE

Kaydon 16295001

SERIES

XT Series

STRUCTURE

Esferas de contato de quatro pontos

OVERALL OD

735 mm

OVERALL ID

497.84 mm

OVERALL HEIGHT

71.984 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	16295001
Certified interchangeable with	Kaydon 16295001
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	Z5VJRYVTZ2VGMUVGGEQYWPWGJG
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	XT Series
Reference model	16295001
Bearing structure	Esferas de contato de quatro pontos
Gear arrangement	Engrenagem interna
DIMENSION	
Overall outside diameter (Do)	28.937 in Metric reference: aproximadamente 735 mm
Overall inside diameter (di)	19.600 in Metric reference: aproximadamente 498 mm
Overall height (H)	2.834 in Metric reference: aproximadamente 71,98 mm

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.

DIMENSION (CONTINUED)	
Assembly weight (G)	225 lb Metric reference: aproximadamente 102,058 kg
MOUNTING	
Outer ring bolt circle (Lo)	27.165 in Metric reference: aproximadamente 689,99 mm
Inner ring bolt circle (Li)	22.126 in Metric reference: aproximadamente 562 mm
GEAR	
Gear pitch diameter (D2)	20.000 in Metric reference: aproximadamente 508 mm
Diametral pitch (Pd)	4
Gear tooth count (z2)	80
PERFORMANCE	
Maximum gear tooth load (Fz)	13250 lbf Metric reference: aproximadamente 58,94 kN
Moment load rating (Crm)	244000 ft lbf Metric reference: aproximadamente 330,82 kN m
PERFORMANCE RATINGS	
Moment	244000.0000000000 ft lbf Metric reference: aproximadamente 330,82 kN m
Gear Tooth	13250.0000000000 lbf Metric reference: aproximadamente 58,94 kN
MOUNTING INTERFACES	
Outer ring mounting	24 holes - 0.813
Inner ring mounting	30 holes - 0.813
GEAR INTERFACE	
Pitch system	DP
Diametral pitch	4 DP
Module reference	6.35 mm

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)	
Number of teeth	80
SOURCE TRACEABILITY	
Source document code	KAYDON-CAT390
Source file	Kaydon_Catalog_390.pdf
PDF page	80
Printed page	78
Source language	EN-US
Original unit system	Inch

Source and Verification Traceability

PUBLIC RECORD UID Z5VJRYVTZ2VGMUVGGEQYWPWGJG	SOURCE DOCUMENT KAYDON-CAT390
SOURCE FILE Kaydon_Catalog_390.pdf	SOURCE LOCATION PDF page 80 Printed page 78
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 | Email: andi@merydom.com | WhatsApp: +86 17705201170

Product page: <https://rotnex.com/pt/produtos/rolamentos-de-giro-de-substituicao/kaydon/16295001/>

Trademark and legal notice: referenced brand and model names are used only for identification and cross-reference. MERYDOM is an independent manufacturer and is not affiliated with or endorsed by the referenced brand unless expressly stated.