

Factory-Verified Replacement

MERYDOM 10-16 0300/0-08023

Certified for interchange with IMO 10-16 0300/0-08023.
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

10-16 0300/0-08023

REFERENCE

IMO 10-16 0300/0-08023

SERIES

116 Series

STRUCTURE

Four-point contact ball

OVERALL OD

380 mm

OVERALL ID

240 mm

OVERALL HEIGHT

mm

GEAR

Ungeared

Published Technical Drawing



imo-10160300008023-drawing.webp

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	10-16 0300/0-08023
Certified interchangeable with	IMO 10-16 0300/0-08023
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	TCJJSYZ4ZO42OIBVSD652XP7K
MATERIALS	
Configurable ring material options	42CrMo / 50Mn
Seal material	NBR - Nitrile rubber
Configurable spacer material options	Engineering nylon / Brass
IDENTIFICATION	
Reference brand	IMO
Reference series	116 Series
Reference model	10-16 0300/0-08023
Bearing structure	Four-point contact ball
Gear arrangement	Ungeared
DIMENSION	
Overall outside diameter (Da)	380 mm
Overall inside diameter (di)	240 mm
Assembly weight (G)	14 kg

Complete Product Data

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MOUNTING	
Outer ring bolt circle (La)	340 mm
Outer ring mounting-hole count (na)	20
Inner ring bolt circle (Li)	260 mm
Inner ring mounting-hole count (ni)	20
PERFORMANCE	
Static radial load rating (Co_rad)	152 kN
Static axial load rating (Co_ax)	310 kN
Dynamic radial load rating (C_rad)	117 kN
Dynamic axial load rating (C_ax)	101 kN
PERFORMANCE RATINGS	
Co Rad	152 kN Not simultaneous with other listed dynamic ratings
Co Ax	310 kN Not simultaneous with other listed dynamic ratings
C Rad	117 kN Not simultaneous with other listed dynamic ratings
C Ax	101 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	20 holes - See source drawing
Inner ring mounting	20 holes - See source drawing
GEAR INTERFACE	
Integral gear	Not applicable - ungeared bearing
SOURCE TRACEABILITY	

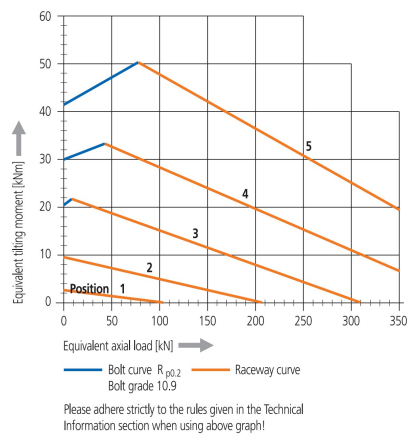
Complete Product Data

All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

SOURCE TRACEABILITY (CONTINUED)	
Source document code	IMO_SINGLE_ROW_BALL_EN
Source file	imo_dkugeldrehverbindungen_einreihig-en.pdf
PDF page	5
Printed page	Not published
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	imo-10160300008023-curve.webp SHA-256: 3e78ff549181fb76735f046e9a6643dc9307c29da8729dae36534cb78b92430a
Outline Drawing	imo-10160300008023-drawing.webp SHA-256: e8e7ffe7b491d68b9ee46db6a2a12ff34e6b488b5e46e111b8fea530945238e1

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.



Radial clearance max. 0.03 mm
Axial clearance: max. 0.03 mm
Bearing ring material: C45N
1 Taper type grease nipple, form C in filling plug
Mounting holes equally spaced
Raceway system supplied pre-lubricated
Dimensions without tolerances DIN ISO 2768 coarse

imo-10160300008023-curve.webp | SHA-256: 3e78ff549181fb76735f046e9a6643dc9307c29da8729dae36534cb78b92430a

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 TCJJSYZ4ZO42OIBVVS652XP7K	SOURCE DOCUMENT IMO_SINGLE_ROW_BALL_EN
SOURCE FILE imo_dkugeldrehverbindungen_einreihig-en.pdf	SOURCE LOCATION PDF page 5 Printed page Not published
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/products/slewing-bearing-replacements/imo/10-16-0300-0-08023/>

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.