Factory-Verified Replacement

MERYDOM 12-25 1155/1-03240

Certified for interchange with IMO 12-25 1155/1-03240. 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
12-25 1155/1-03240

REFERENCE
IMO 12-25 1155/1-03240

SERIES
125 Series

STRUCTURE
Sfere a quattro punti di contatto

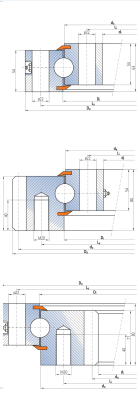
OVERALL OD
1,255 mm

OVERALL ID
1,010 mm

OVERALL HEIGHT
mm

GEAR
Dentatura interna

Published Technical Drawing



imo-12251155103240-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	12-25 1155/1-03240
Certified interchangeable with	IMO 12-25 1155/1-03240
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	YTGCHOZKPP3IT2OQOECSNVUJWL
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	125 Series
Reference model	12-25 1155/1-03240
Bearing structure	Sfere a quattro punti di contatto
Gear arrangement	Dentatura interna
DIMENSION	
Overall outside diameter (Da)	1.255 mm
Overall inside diameter (di)	1.010 mm
MOUNTING	
Outer ring bolt circle (La)	180 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.

MOUNTING (CONTINUED)	
Outer ring mounting-hole count (na)	1.215
Common mounting-hole diameter (B)	36 mm
Inner ring bolt circle (Li)	1.094 mm
Inner ring mounting-hole count (ni)	36
GEAR	
Gear pitch diameter (d)	1.030 mm
Gear module (m)	10 mm
Gear tooth count (z)	103
PERFORMANCE	
Permitted circumferential force, normal (fz_norm)	47 kN
Permitted circumferential force, maximum (fz_max)	86 kN
Static radial load rating (Co_rad)	1.151 kN
Static axial load rating (Co_ax)	3.080 kN
Dynamic radial load rating (C_rad)	351 kN
Dynamic axial load rating (C_ax)	409 kN
PERFORMANCE RATINGS	
Fz Norm	47 kN | Not simultaneous with other listed dynamic ratings
Fz Max	86 kN | Not simultaneous with other listed dynamic ratings
Co Rad	1.151 kN | Not simultaneous with other listed dynamic ratings
Co Ax	3.080 kN | Not simultaneous with other listed dynamic ratings

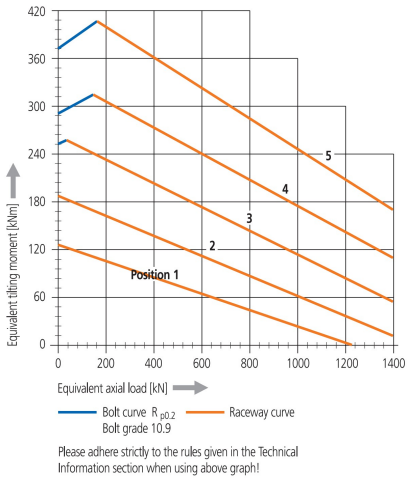
Complete Product Data

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

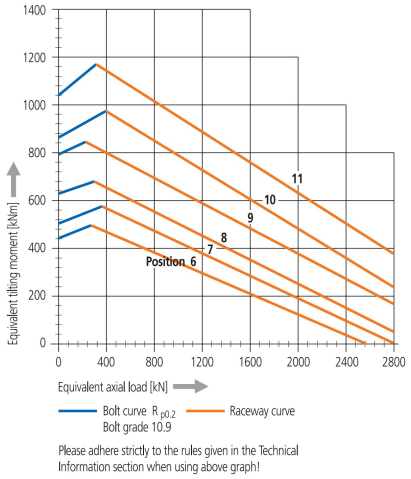
PERFORMANCE RATINGS (CONTINUED)	
C Rad	351 kN | Not simultaneous with other listed dynamic ratings
C Ax	409 kN | Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	1215 holes - B 36 mm
Inner ring mounting	36 holes - B 36 mm
GEAR INTERFACE	
Pitch system	module
Module reference	10 mm
Number of teeth	103
SOURCE TRACEABILITY	
Source document code	IMO_SINGLE_ROW_BALL_EN
Source file	imo_dkugeldrehverbindungen_einreihig-en.pdf
PDF page	11
Printed page	Not published
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	imo-12251155103240-curve.webp | SHA-256: ef242f703ea11704bdb9793ea79efabed993f8188faac34ceb6e0c7dc04e6247
Outline Drawing	imo-12251155103240-drawing.webp | SHA-256: 806f4774c02ec65b7588ba1d66881a2184d32a044cd674ef98bede5cbff53f13

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.



Please adhere strictly to the rules given in the Technical Information section when using above graph!



Please adhere strictly to the rules given in the Technical Information section when using above graph!

Radial clearance: 0 - 0.25 mm
Axial clearance: 0 - 0.4 mm
Bearing ring material: C45N
4 Taper type grease nipples on circumference
Mounting holes equally spaced
Raceway system supplied pre-lubricated
Dimensions without tolerances DIN ISO 2768 coarse

imo-12251155103240-curve.webp | SHA-256: ef242f703ea11704bdb9793ea79efabed993f8188faac34ceb6e0c7dc04e6247

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

YTGCHOZKPP3IT2OQOECSNVUJWL

SOURCE DOCUMENT

IMO_SINGLE_ROW_BALL_EN

SOURCE FILE

imo_dkugeldrehverbindungen_einreihig-en.pdf

SOURCE LOCATION

PDF page 11 | 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

Email: jovi@merydom.com | Email: andi@merydom.com | WhatsApp: +86 17705201170

Product page: https://rotnex.com/it/prodotti/cuscinetti-di-rotazione-sostitutivi/imo/12-25-1155-1-03240/