Factory-Verified Replacement

MERYDOM 81-40 2915/2-07615

Certified for interchange with IMO 81-40 2915/2-07615. 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
81-40 2915/2-07615

REFERENCE
IMO 81-40 2915/2-07615

SERIES
840 Series

STRUCTURE
Double axial ball

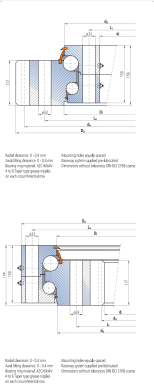
OVERALL OD
3,216 mm

OVERALL ID
2,765 mm

OVERALL HEIGHT
mm

GEAR
External gear

Published Technical Drawing



imo-81402915207615-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	81-40 2915/2-07615
Certified interchangeable with	IMO 81-40 2915/2-07615
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	NA63SPOUKC4UVXIKLD6WSRIB2G
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	840 Series
Reference model	81-40 2915/2-07615
Bearing structure	Double axial ball
Gear arrangement	External gear
DIMENSION	
Overall outside diameter (Da)	3,216 mm
Overall inside diameter (di)	2,765 mm
Assembly weight (G)	1,790 kg

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	
Outer ring bolt circle (La)	3,050 mm
Inner ring bolt circle (Li)	2,820 mm
Outer ring mounting-hole count (na)	60
GEAR	
Gear pitch diameter (d)	3,160 mm
Gear module (m)	20 mm
Gear tooth count (z)	158
Addendum modification coefficient (x)	0.5
PERFORMANCE	
Permitted circumferential force, normal (fz_norm)	233 kN
Permitted circumferential force, maximum (fz_max)	408 kN
Static radial load rating (Co_rad)	2,738 kN
Static axial load rating, tension (Co_ax_T)	13,768 kN
Static axial load rating, compression (Co_ax_H)	11,242 kN
Dynamic radial load rating (C_rad)	590 kN
Dynamic axial load rating, tension (C_ax_T)	1,399 kN
Dynamic axial load rating, compression (C_ax_H)	1,109 kN
PERFORMANCE RATINGS	
Fz Norm	233 kN | Not simultaneous with other listed dynamic ratings
Fz Max	408 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)	
Co Rad	2,738 kN | Not simultaneous with other listed dynamic ratings
Co Ax T	13,768 kN | Not simultaneous with other listed dynamic ratings
Co Ax H	11,242 kN | Not simultaneous with other listed dynamic ratings
C Rad	590 kN | Not simultaneous with other listed dynamic ratings
C Ax T	1,399 kN | Not simultaneous with other listed dynamic ratings
C Ax H	1,109 kN | Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	60 holes - See source drawing
Inner ring mounting	holes - See source drawing
GEAR INTERFACE	
Pitch system	module
Module reference	20 mm
Number of teeth	158
SOURCE TRACEABILITY	
Source document code	IMO_DOUBLE_AXIAL_EN
Source file	imo_doppel-axial-drehverbindungen-en.pdf
PDF page	3
Printed page	Not published
Source language	EN
Original unit system	Metric

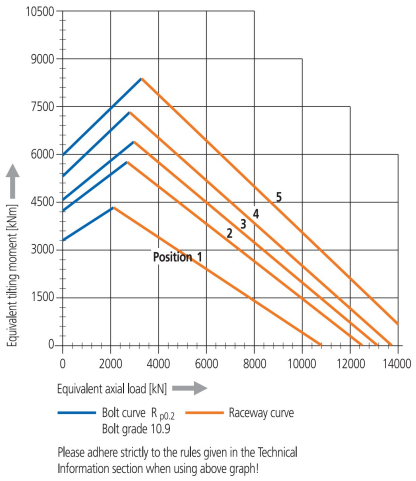
Complete Product Data

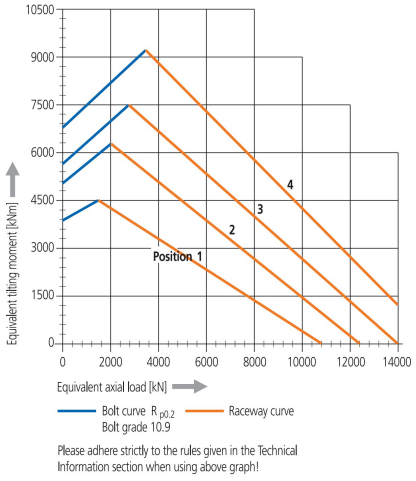
All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	imo-81402915207615-curve.webp | SHA-256: d974974b85b828218d457eb64135dd69f9e8145051cdff9b20b2fa8914808aef
Outline Drawing	imo-81402915207615-drawing.webp | SHA-256: 72f379d99754407dadfdb948cf3cb00e6c5701f0c9558abe84e87dde521323c5

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.





imo-81402915207615-curve.webp | SHA-256: d974974b85b828218d457eb64135dd69f9e8145051cdff9b20b2fa8914808aef

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

NA63SPOUKC4UVXIKLD6WSRIB2G

SOURCE DOCUMENT

IMO_DOUBLE_AXIAL_EN

SOURCE FILE

imo_doppel-axial-drehverbindungen-en .pdf

SOURCE LOCATION

PDF page 3 | 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/products/slewing-bearing-replacements/imo/81-40-2915-2-07615/