

Factory-Verified Replacement

MERYDOM 11-20 0311/1-02103

Certified for interchange with IMO 11-20 0311/1-02103.
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

11-20 0311/1-02103

REFERENCE

IMO 11-20 0311/1-02103

SERIES

120 Series

STRUCTURE

Esferas de contato de quatro pontos

OVERALL OD

404 mm

OVERALL ID

242 mm

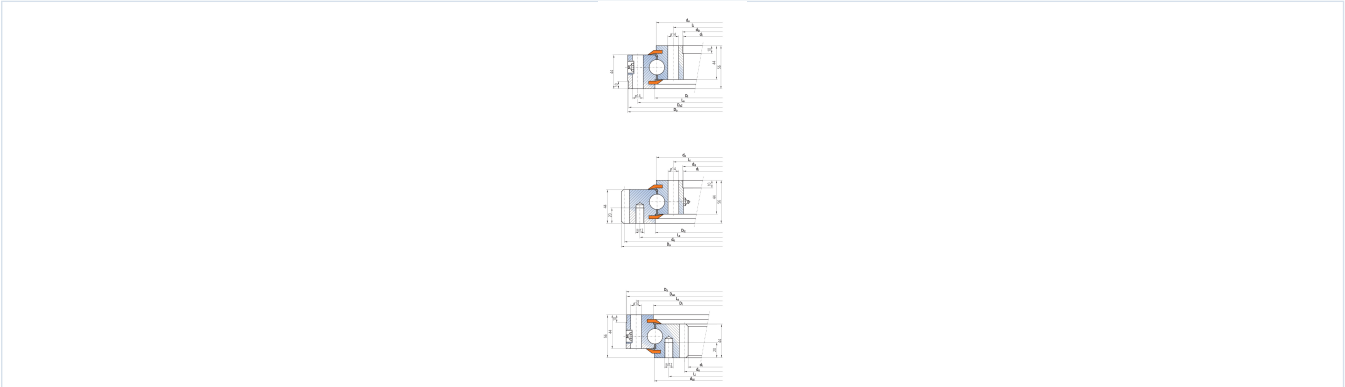
OVERALL HEIGHT

mm

GEAR

Engrenagem externa

Published Technical Drawing



imo-11200311102103-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	11-20 0311/1-02103
Certified interchangeable with	IMO 11-20 0311/1-02103
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	NY75YAEBZNSZMBX3SENSB35OQZ
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	120 Series
Reference model	11-20 0311/1-02103
Bearing structure	Esferas de contato de quatro pontos
Gear arrangement	Engrenagem externa
DIMENSION	
Overall outside diameter (Da)	404 mm
Overall inside diameter (di)	242 mm
MOUNTING	
Outer ring bolt circle (La)	23 mm

Complete Product Data

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MOUNTING (CONTINUED)	
Outer ring mounting-hole count (na)	355
Common mounting-hole diameter (B)	20 mm
Inner ring bolt circle (Li)	268 mm
Inner ring mounting-hole count (ni)	20
GEAR	
Gear pitch diameter (d)	395 mm
Gear module (m)	5 mm
Gear tooth count (z)	79
PERFORMANCE	
Permitted circumferential force, normal (fz_norm)	11,75 kN
Permitted circumferential force, maximum (fz_max)	23,5 kN
Static radial load rating (Co_rad)	192 kN
Static axial load rating (Co_ax)	448 kN
Dynamic radial load rating (C_rad)	140 kN
Dynamic axial load rating (C_ax)	140 kN
PERFORMANCE RATINGS	
Fz Norm	11,75 kN Not simultaneous with other listed dynamic ratings
Fz Max	23,5 kN Not simultaneous with other listed dynamic ratings
Co Rad	192 kN Not simultaneous with other listed dynamic ratings
Co Ax	448 kN Not simultaneous with other listed dynamic ratings

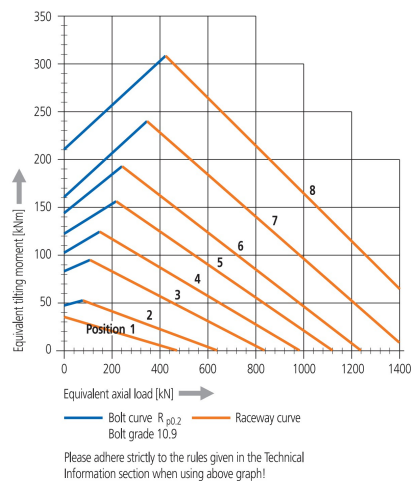
Complete Product Data

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	140 kN Not simultaneous with other listed dynamic ratings
C Ax	140 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	355 holes - B 20 mm
Inner ring mounting	20 holes - B 20 mm
GEAR INTERFACE	
Pitch system	module
Module reference	5 mm
Number of teeth	79
SOURCE TRACEABILITY	
Source document code	IMO_SINGLE_ROW_BALL_EN
Source file	imo_dkugeldrehverbindungen_einreihig-en.pdf
PDF page	9
Printed page	Not published
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	imo-11200311102103-curve.webp SHA-256: 0260cea44a56711e11de91c16ce1fe6ebf2ae9a66b01549c7456878a2c0e7c02
Outline Drawing	imo-11200311102103-drawing.webp SHA-256: cd90951201cc25f94d902bd39f73a0b149bfaa777bae09d714ed2cd82fd30b8c

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.



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

Clearance of precision version

Position	Radial Clearance	Axial Clearance
1	max. 0.03	max. 0.03
2	max. 0.03	max. 0.03
3	max. 0.03	max. 0.03
4	max. 0.04	max. 0.04
5	max. 0.04	max. 0.04
6	max. 0.05	max. 0.05
7	max. 0.05	max. 0.05
8	max. 0.06	max. 0.06

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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

NY75YAEBSZNSZMBX3SENSB35OQZ

SOURCE DOCUMENT

IMO_SINGLE_ROW_BALL_EN

SOURCE FILE

imo_dkugeldrehverbindungen_einreihig-en.pdf

SOURCE LOCATION

PDF page 9 | 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/pt/produtos/rolamentos-de-giro-de-substituicao/imo/11-20-0311-1-02103/>

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