

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 0311/1-02102
Certified interchangeable with	IMO 11-20 0311/1-02102
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	CS6TSNSBVKRL6RDZ6MVHFEDE54
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 0311/1-02102
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

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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

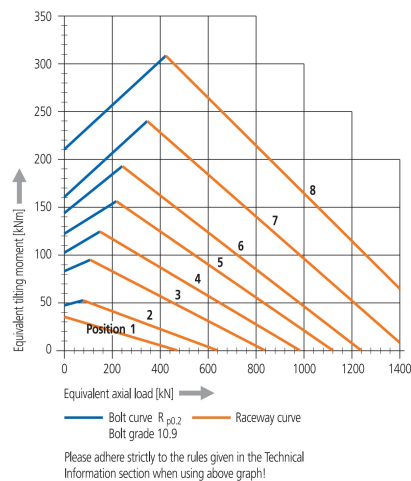
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PERFORMANCE RATINGS (CONTINUED)	
C Rad	140 kN Not simultaneous with other listed dynamic ratings
C Ax	140 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	355 holes - B 20 mm
Inner ring mounting	20 holes - 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	7
Printed page	Not published
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	imo-11200311102102-curve.webp SHA-256: 472c16cf7930cb934a75f73e47cbc73ee1f45abc17485ca2a871a7b0ec e72f10
Outline Drawing	imo-11200311102102-drawing.webp SHA-256: b01d470388a54b4acad6a260485219bad528dfaae9a617241304423e67 038959

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: 0 - 0.2 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-11200311102102-curve.webp | SHA-256: 472c16cf7930cb934a75f73e47cbc73ee1f45abc17485ca2a871a7b0ece72f10

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

CS6TSNSBVKRL6RDZ6MVHFEDE54

SOURCE DOCUMENT

IMO_SINGLE_ROW_BALL_EN

SOURCE FILE

imo_dkugeldrehverbindungen_einreihig-en.pdf

SOURCE LOCATION

PDF page 7 | Printed page Not published

VERIFICATION

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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/11-20-0311-1-02102/>

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