

Factory-Verified Replacement

MERYDOM 12-20 0641/1-02232

Certified for interchange with IMO 12-20 0641/1-02232.
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

12-20 0641/1-02232

REFERENCE

IMO 12-20 0641/1-02232

SERIES

120 Series

STRUCTURE

Esferas de contato de quatro pontos

OVERALL OD

716 mm

OVERALL ID

546 mm

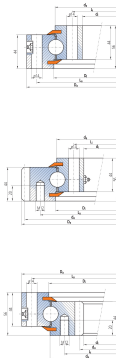
OVERALL HEIGHT

mm

GEAR

Engrenagem interna

Published Technical Drawing



imo-12200641102232-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	12-20 0641/1-02232
Certified interchangeable with	IMO 12-20 0641/1-02232
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	PCSQR7U3DI3DFHKBTB7WKVVGL7
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	12-20 0641/1-02232
Bearing structure	Esferas de contato de quatro pontos
Gear arrangement	Engrenagem interna
DIMENSION	
Overall outside diameter (Da)	716 mm
Overall inside diameter (di)	546 mm
MOUNTING	
Outer ring bolt circle (La)	50 mm

Complete Product Data

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MOUNTING (CONTINUED)	
Outer ring mounting-hole count (na)	690
Common mounting-hole diameter (B)	36 mm
Inner ring bolt circle (Li)	605 mm
Inner ring mounting-hole count (ni)	36
GEAR	
Gear pitch diameter (d)	558 mm
Gear module (m)	6 mm
Gear tooth count (z)	93
PERFORMANCE	
Permitted circumferential force, normal (fz_norm)	17,5 kN
Permitted circumferential force, maximum (fz_max)	32,9 kN
Static radial load rating (Co_rad)	395 kN
Static axial load rating (Co_ax)	924 kN
Dynamic radial load rating (C_rad)	184 kN
Dynamic axial load rating (C_ax)	185 kN
PERFORMANCE RATINGS	
Fz Norm	17,5 kN Not simultaneous with other listed dynamic ratings
Fz Max	32,9 kN Not simultaneous with other listed dynamic ratings
Co Rad	395 kN Not simultaneous with other listed dynamic ratings
Co Ax	924 kN Not simultaneous with other listed dynamic ratings

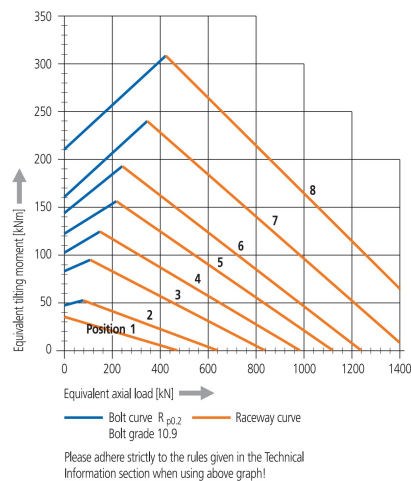
Complete Product Data

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	184 kN Not simultaneous with other listed dynamic ratings
C Ax	185 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	690 holes - B 36 mm
Inner ring mounting	36 holes - B 36 mm
GEAR INTERFACE	
Pitch system	module
Module reference	6 mm
Number of teeth	93
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-12200641102232-curve.webp SHA-256: 472c16cf7930cb934a75f73e47cbc73ee1f45abc17485ca2a871a7b0ec e72f10
Outline Drawing	imo-12200641102232-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-12200641102232-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

PCSQR7U3DI3DFHKBTB7WKVVGL7

SOURCE DOCUMENT

IMO_SINGLE_ROW_BALL_EN

SOURCE FILE

imo_dkugeldrehverbindungen_einreihig-en.pdf

SOURCE LOCATION

PDF page 7 | 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/12-20-0641-1-02232/>

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