

240/1120 CAF/W33



Spherical roller bearings can accommodate heavy loads in both directions. They are self-aligning and accommodate misalignment and shaft deflections, with virtually no increase in friction or temperature. The design includes features to facilitate relubrication. The bearings can be used in a modular system, including housings, sleeves and nuts.

- Accommodate misalignment
- High load carrying capacity
- Relubrication features
- Low friction and long service life
- Increased wear resistance

Bore type		Cylindrical
Dimensions		
d	1 120 mm	Bore diameter
D	1 580 mm	Outside diameter
B	462 mm	Width
d ₂	≈ 1 268 mm	Shoulder diameter of inner ring
D ₁	≈ 1 423 mm	Shoulder/recess diameter of outer ring
b	22.3 mm	Width of lubrication groove
K	12 mm	Diameter of lubrication hole
r _{1,2}	min. 9.5 mm	Chamfer dimension
Normal		ISO tolerance class for dimensions
Abutment dimensions		
d _a	min. 1 154 mm	Diameter of shaft abutment
D _a	max. 1 546 mm	Diameter of housing abutment

r_a	max. 8 mm	Radius of fillet
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Calculation data

AGA performance class		AGA Explorer
Basic dynamic load rating	C	22 364 kN
Basic static load rating	C_0	50 000 kN
Fatigue load limit	P_u	2 750 kN
Reference speed		130 r/min
Limiting speed		240 r/min
Limiting value	e	0.26
Calculation factor	Y_1	2.6
Calculation factor	Y_2	3.9
Calculation factor	Y_0	2.5

Tolerances of run-out

ISO tolerance class for geoal tolerances	Normal
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Radial internal clearance

Minimum initial clearance	530 μ m
Maximum initial clearance	780 μ m

Tolerances of run-out

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal, P6, P5, tapered bore 1:12, tapered bore 1:30
- Radial internal clearance: cylindrical bore, tapered bore

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit

AGA BEARINGS