

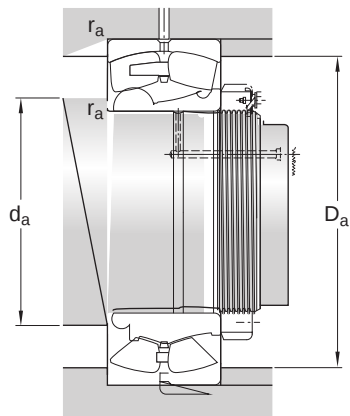
23268 CA/W33



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	340 mm Bore diameter
	t _{Δdmp}	-0.04 – 0.0 mm Deviation limits of mid-range bore diameter
	D	620 mm Outside diameter
	t _{ΔDmp}	-0.05 – 0.0 mm Deviation limits of mid-range outside diameter
	B	224 mm Width
	t _{ΔBs}	-0.4 – 0.0 mm Deviation limits of ring width
	d ₂	≈ 427 mm Shoulder diameter of inner ring
	D ₁	≈ 528 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. 6 mm Chamfer dimension
	Normal	ISO tolerance class for dimensions



Abutment dimensions

d_a	min. 366 mm	Diameter of shaft abutment
D_a	max. 594 mm	Diameter of housing abutment
r_a	max. 5 mm	Radius of fillet

Calculation data

AGA performance class		AGA Explorer
Basic dynamic load rating	C	5 362 kN
Basic static load rating	C_0	7 800 kN
Fatigue load limit	P_u	540 kN
Reference speed		560 r/min
Limiting speed		800 r/min
Limiting value	e	0.35
Calculation factor	Y_1	1.9
Calculation factor	Y_2	2.9
Calculation factor	Y_0	1.8

Tolerances of run-out

Range of section height at inner ring of assembled bearing	t_{Kia}	60 μ m
Range of section height at outer ring of assembled bearing	t_{Kea}	100 μ m
ISO tolerance class for geoal tolerances		Normal

Radial internal clearance

Minimum initial clearance	200 µm
Maximum initial clearance	310 µm
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