

239/710 CAK/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

Tapered 1:12

Dimensions

d	710 mm	Bore diameter
t _{Δdmp}	0.0 – 0.08 mm	Deviation limits of mid-range bore diameter
t _{ΔSL}	0.0 – 0.08 mm	Deviation limits of tapered slope
D	950 mm	Outside diameter
t _{ΔDmp}	-0.1 – 0.0 mm	Deviation limits of mid-range outside diameter
B	180 mm	Width
t _{ΔBs}	-0.75 – 0.0 mm	Deviation limits of ring width
d ₂	≈ 794 mm	Shoulder diameter of inner ring
D ₁	≈ 882 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	max. 927 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	5 702 kN
Basic static load rating	C_0	12 000 kN
Fatigue load limit	P_u	750 kN
Reference speed		340 r/min
Limiting speed		600 r/min
Limiting value	e	0.17
Calculation factor	Y_1	4
Calculation factor	Y_2	5.9
Calculation factor	Y_0	4

Tolerances of run-out

Range of section height at inner ring of assembled bearing	t_{Kia}	80 μ m
Range of section height at outer ring of assembled bearing	t_{Kea}	140 μ m
ISO tolerance class for geoal tolerances		Normal

Radial internal clearance

Minimum initial clearance	510 μ m
Maximum initial clearance	670 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