248/670 CAMA/VG127

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. They can be used in a modular system, including housings, sleeves and nuts.

- Accommodate misalignment
- High load carrying capacity
- Low friction and long service life
- Extensive range available sealed for increased reliability
- Increased wear resistance

Bore type	Cylindrical

Dimensions

d	670 mm	Bore diameter
$t_{\Delta dmp}$	-0.075 – 0.0 mm	Deviation limits of mid-range bore diameter
D	820 mm	Outside diameter
$t_{\Delta Dmp}$	-0.1 – 0.0 mm	Deviation limits of mid-range outside diameter
B	150 mm	Width
$t_{\Delta Bs}$	-0.75 – 0.0 mm	Deviation limits of ring width
d_2	≈ 718 mm	Shoulder diameter of inner ring
D_1	≈ 772 mm	Shoulder/recess diameter of outer ring
$r_{1,2}$	min. 4 mm	Chamfer dimension
	Normal	ISO tolerance class for dimensions

Abutment dimensions

d_a	min. 685 mm	Diameter of shaft abutment
D_a	max. 805 mm	Diameter of housing abutment

r_a	max. 3 mm	Radius of fillet

Calculation data

AGA performance class		AGA Explorer
Basic dynamic load rating	C	3 598 kN
Basic static load rating	C_0	9 500 kN
Fatigue load limit	P_u	640 kN
Reference speed		400 r/min
Limiting speed		700 r/min
Limiting value	e	0.16
Calculation factor	Y_1	4.2
Calculation factor	Y_2	6.3
Calculation factor	Y_0	4

Tolerances of run-out

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

Radial internal clearance

Minimum initial clearance	350 µm
Maximum initial clearance	530 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