

238/630 CAMA/W20



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

Dimensions

d	630 mm	Bore diameter
t _{Δdmp}	-0.05 – 0.0 mm	Deviation limits of mid-range bore diameter
D	780 mm	Outside diameter
t _{ΔDmp}	-0.075 – 0.0 mm	Deviation limits of mid-range outside diameter
B	112 mm	Width
t _{ΔBs}	-0.5 – 0.0 mm	Deviation limits of ring width
d ₂	≈ 682 mm	Shoulder diameter of inner ring
D ₁	≈ 738 mm	Shoulder/recess diameter of outer ring
K	9 mm	Diameter of lubrication hole
r _{1,2}	min. 4 mm	Chamfer dimension
	Normal	ISO tolerance class for dimensions

Abutment dimensions

d _a	min. 645 mm	Diameter of shaft abutment
D _a	max. 765 mm	Diameter of housing abutment

r_a	max. 3 mm	Radius of fillet
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Calculation data

AGA performance class		AGA Explorer
Basic dynamic load rating	C	2 545 kN
Basic static load rating	C_0	6 100 kN
Fatigue load limit	P_u	415 kN
Reference speed		430 r/min
Limiting speed		750 r/min
Limiting value	e	0.12
Calculation factor	Y_1	5.6
Calculation factor	Y_2	8.4
Calculation factor	Y_0	5.6

Tolerances of run-out

Range of section height at inner ring of assembled bearing	t_{Kia}	70 μ m
Range of section height at outer ring of assembled bearing	t_{Kea}	120 μ m
ISO tolerance class for geoal tolerances		Normal

Radial internal clearance

Minimum initial clearance	310 μ m
Maximum initial clearance	480 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