

N 311 ECM

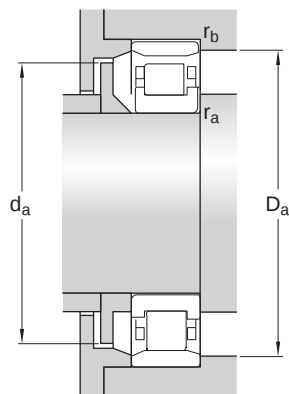
Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the inner ring and no flanges on the outer ring, N design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.



- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design



Dimensions		
d	55 mm	Bore diameter
D	120 mm	Outside diameter
B	29 mm	Width
d ₁	≈ 77.5 mm	Shoulder diameter of inner ring
E	106.5 mm	Raceway diameter of outer ring
r _{1,2}	min. 2 mm	Chamfer dimension
r _{3,4}	min. 2 mm	Chamfer dimension
s	max. 2 mm	Permissible axial displacement



Abutment dimensions		
d _a	min. 65 mm	Diameter of spacer sleeve
d _a	max. 104 mm	Diameter of spacer sleeve
D _a	min. 109 mm	Diameter of housing abutment
D _a	max. 111 mm	Diameter of housing abutment

r_a	max. 2 mm	Radius of fillet
r_b	max. 2 mm	Radius of fillet

Calculation data

AGA performance class		AGA Explorer
Basic dynamic load rating	C	156 kN
Basic static load rating	C_0	143 kN
Fatigue load limit	P_u	18.6 kN
Reference speed		6 000 r/min
Limiting speed		7 000 r/min
Minimum load factor	k_r	0.12
Limiting value	e	0.2
Calculation factor	Y	0.6

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal (), P6, Normal (inch)
- Radial internal clearance: cylindrical bore, tapered bore
- Axial internal clearance: NUP, NJ + HJ

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit