

NU 221 ECML

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU 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	105 mm	Bore diameter
D	190 mm	Outside diameter
B	36 mm	Width
D ₁	≈ 165 mm	Shoulder diameter of outer ring
F	125 mm	Raceway diameter of inner ring
r _{1,2}	min. 2.1 mm	Chamfer dimension
r _{3,4}	min. 2.1 mm	Chamfer dimension
s	max. 2 mm	Permissible axial displacement



Abutment dimensions		
d _a	min. 117 mm	Diameter of spacer sleeve
d _a	max. 122 mm	Diameter of spacer sleeve
d _b	min. 128 mm	Diameter of shaft abutment
D _a	max. 177.3 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	300 kN
Basic static load rating	C_0	315 kN
Fatigue load limit	P_u	36.5 kN
Reference speed		3 800 r/min
Limiting speed		6 300 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Associated products

Angle ring	HJ 221 EC
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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