



Part Number	6003
Bearing Series	Radial
Hybrid (Si ₃ N ₄ Balls)	No

Geometrical Data

Number of Balls	Z [Qty.]	10
Bearing Weight	m [kg]	0.039

Bearing Load Ratings¹

Dynamic Radial Load Rating	C [N]	5,700
Static Radial Load Rating Steel Balls	C ₀ [N]	3,050
Static Radial Load Rating Si ₃ N ₄ balls	C _{0HY} [N]	2,130

Bearing RPM Ratings²

Speed Value with Oil Lubrication	n _{oil} [1/min]	54,000
Speed Value with Grease Lubrication	n _{grease} [1/min]	43,200

Bearing Dimensions

Bore Diameter	d [mm]	17
Outer Diameter	D [mm]	35
Bearing Width	B [mm]	10
Pitch Circle	d _m [mm]	26.0
Ball Diameter	D _w [mm]	4.762
OD Inner Ring	d ₁ [mm]	22.6
ID Outer Ring	D ₁ [mm]	29.4
Chamfer	r _{1,2} [mm]	0.3

Mating Part Dimensions

Abutment Diameter Inner Ring	d _a min. [mm]	20.0
Abutment Diameter Outer Ring	D _a max. [mm]	31.5
Chamfer Associated Component	r _a max. [mm]	0.3

Notes:

1. The stated load ratings are given for a single bearing with grease lubrication. If specific applications differ, please consult GMN USA engineers.
2. Speed ratings are for phenolic outer land guided cage (TA). Please consult the full GMN Bearing catalog or GMN USA engineers for speed ratings of different cages.