



Part Number	HY 609
Bearing Series	Radial
Hybrid (Si ₃ N ₄ Balls)	Yes

Geometrical Data

Number of Balls	Z [Qty.]	8
Bearing Weight	m [kg]	0.023

Bearing Load Ratings¹

Dynamic Radial Load Rating	C [N]	3,300
Static Radial Load Rating Steel Balls	C ₀ [N]	1,390
Static Radial Load Rating Si ₃ N ₄ balls	C _{0HY} [N]	980

Bearing RPM Ratings²

Speed Value with Oil Lubrication	n _{oil} [1/min]	104,063
Speed Value with Grease Lubrication	n _{grease} [1/min]	83,250

Bearing Dimensions

Bore Diameter	d [mm]	9
Outer Diameter	D [mm]	24
Bearing Width	B [mm]	7
Pitch Circle	d _m [mm]	16.7
Ball Diameter	D _w [mm]	3.969
OD Inner Ring	d ₁ [mm]	13.4
ID Outer Ring	D ₁ [mm]	19.9
Chamfer	r _{1,2} [mm]	0.3

Mating Part Dimensions

Abutment Diameter Inner Ring	d _a min. [mm]	11.5
Abutment Diameter Outer Ring	D _a max. [mm]	21.0
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.