Spindle ball bearing HY 60 6004 0 T9H P4

24.11.2026

Components

Bearing designation:	HY 60 6004 0 T9H
Bearing design:	60
Series / size:	6004
Ball material:	Ceramic
Cage:	T9H
Seal:	2Z auf Anfrage
Precision:	P4 (HG;UP;P2 Upon request)
Main dimensions [d x D x B]:	20 x 42 x 12 mm

Load data

Static load capacity	C_{0r}:	3800 N
Dynamic load capacity	C_r:	9800 N
Fatigue load limit	C_U:	0 N
Speed limit	n_{grease}:	30000 1/min
Speed limit	n_{oil}:	40000 1/min
Light preload	L:	0 N
Axial rigidity	C_{ax}:	0 N/µm
Medium preload	M:	0 N
Axial rigidity	C_{ax}:	0 N/µm
Heavy preload	S:	0 N
Axial rigidity	C_{ax}:	0 N/µm
Spring preload	Ff:	0 N (for n_{max})

Geometrical Data

Bore diameter	d:	20 mm
Outer diameter	D:	42 mm
Width of single bearing	B:	12 mm
Ball diameter	D_w:	6.35 mm
Number of balls	Z:	9
Chamfer (min)	$r_{1,2\ min}$:	0.6 mm
Chamfer (min), open side	$r_{3,4\ min}$:	-
Outer diameter of inner ring	d_1:	26.6 mm
Outer diameter of inner ring (open side)	d_2:	-
Oiling nozzle position	d_T:	-
Pitch circle diameter	d_m:	31 mm
Inner diameter of outer ring	D_1:	35.5 mm
Undercut of associated component	$r_{a\ max}$:	0.6 mm
Undercut of associated component (open side)	$r_{b\ max}$:	-
Abutment diameter inner ring	$d_{a,b\ min}$:	25 mm
Abutment diameter outer ring	$D_{a,b\ max}$:	37 mm
Inner diameter of outer ring (open side)	D_2:	-
Bearing weight	m:	0.069 kg
Contact angle	Alpha 0:	-

The given speed limits apply to individual bearings with spring preload. Correction factors must be considered for all properties which deviate from this.