Spindle ball bearing HY S 6016 C TXM P4+

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Components

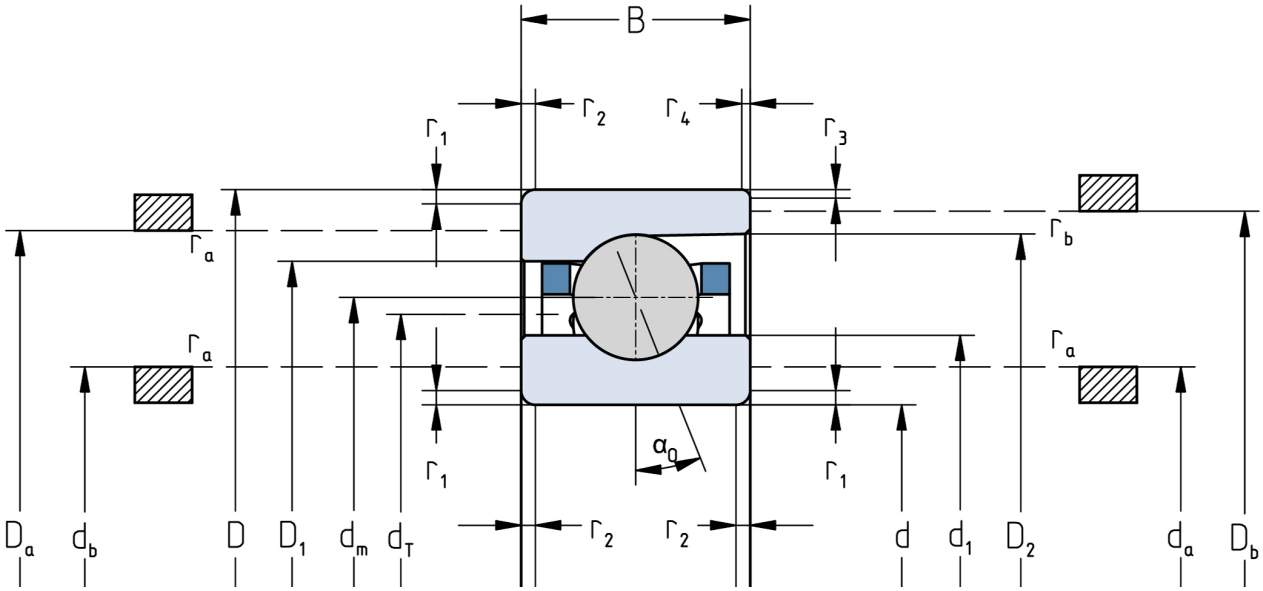
Bearing designation:	HY S 6016 C TXM
Bearing design:	S
Series / size:	6016
Ball material:	Ceramic
Cage:	TXM
Precision:	P4+
Main dimensions [d x D x B]:	80 x 125 x 22 mm

Load data

Static load capacity	C_{0r}:	56000 N
Dynamic load capacity	C_r:	60000 N
Fatigue load limit	C_U:	2099 N
Speed limit	n_{grease}:	15375 1/min
Speed limit	n_{oil}:	20500 1/min
Light preload	L:	310 N
Axial rigidity	C_{ax}:	107 N/µm
Medium preload	M:	920 N
Axial rigidity	C_{ax}:	172 N/µm
Heavy preload	S:	1830 N
Axial rigidity	C_{ax}:	241 N/µm
Spring preload	Ff:	2290 N (for n_{max})

Geometrical Data

Bore diameter	d:	80 mm
Outer diameter	D:	125 mm
Width of single bearing	B:	22 mm
Ball diameter	D_w:	13.494 mm
Number of balls	Z:	20
Chamfer (min)	$r_{1,2\ min}$:	1.1 mm
Chamfer (min), open side	$r_{3,4\ min}$:	0.6 mm
Outer diameter of inner ring	d_1:	94.3 mm
Outer diameter of inner ring (open side)	d_2:	-
Oiling nozzle position	d_T:	98.6 mm
Pitch circle diameter	d_m:	102.5 mm
Inner diameter of outer ring	D_1:	110.7 mm
Undercut of associated component	$r_{a\ max}$:	1 mm
Undercut of associated component (open side)	$r_{b\ max}$:	0.6 mm
Abutment diameter inner ring	$d_{a,b\ min}$:	87.7 mm
Abutment diameter outer ring	$D_{a,b\ max}$:	118.7 mm
Inner diameter of outer ring (open side)	D_2:	116.2 mm
Bearing weight	m:	0.72 kg
Contact angle	Alpha 0:	15°



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