Spindle ball bearing HY KH 6012 E TXM P4+

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Components

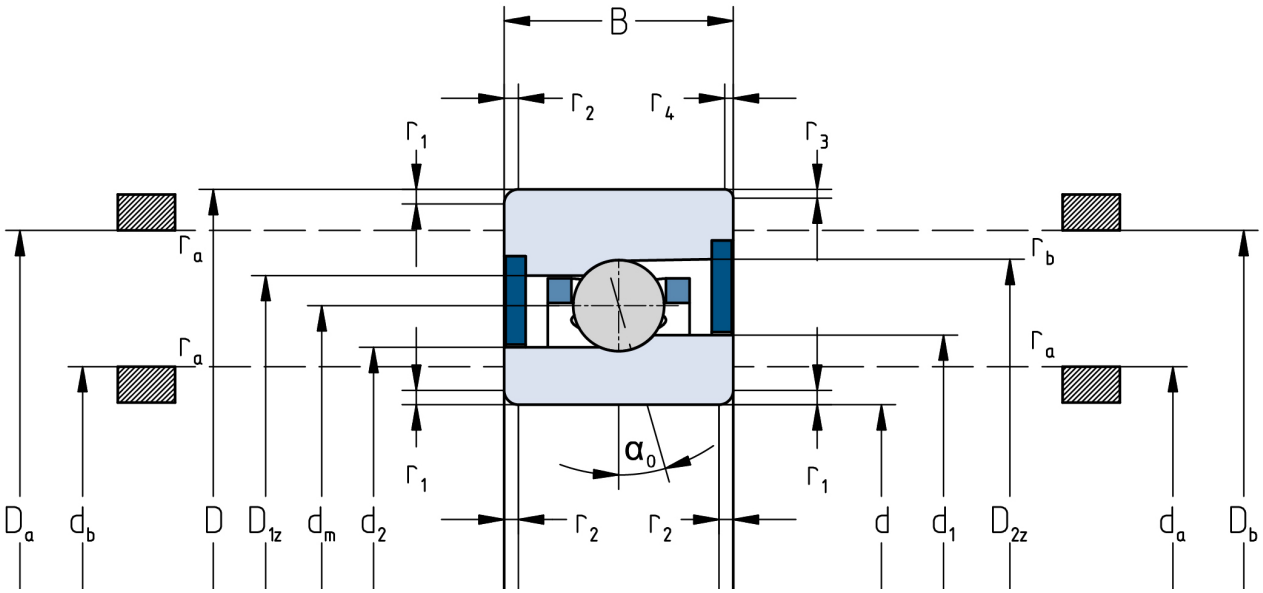
Bearing designation:	HY KH 6012 E TXM
Bearing design:	KH
Series / size:	6012
Ball material:	Ceramic
Cage:	TXM
Seal:	2RZ optional (with grease)
Precision:	P4+
Main dimensions [d x D x B]:	60 x 95 x 18 mm

Load data

Static load capacity	C_{0r}:	11000 N
Dynamic load capacity	C_r:	16200 N
Fatigue load limit	C_U:	416 N
Speed limit	n_{grease}:	23250 1/min
Speed limit	n_{oil}:	31000 1/min
Light preload	L:	140 N
Axial rigidity	C_{ax}:	135 N/µm
Medium preload	M:	400 N
Axial rigidity	C_{ax}:	196 N/µm
Heavy preload	S:	800 N
Axial rigidity	C_{ax}:	252 N/µm
Spring preload	Ff:	790 N (for n_{max})

Geometrical Data

Bore diameter	d:	60 mm
Outer diameter	D:	95 mm
Width of single bearing	B:	18 mm
Ball diameter	D_w:	7.938 mm
Number of balls	Z:	24
Chamfer (min)	$r_{1,2\ min}$:	1.1 mm
Chamfer (min), open side	$r_{3,4\ min}$:	1 mm
Outer diameter of inner ring	d_1:	71.9 mm
Outer diameter of inner ring (open side)	d_2:	70.7 mm
Oiling nozzle position	d_T:	74.4 mm
Pitch circle diameter	d_m:	76.5 mm
Inner diameter of outer ring	D_1:	81.5 mm
Undercut of associated component	$r_{a\ max}$:	1 mm
Undercut of associated component (open side)	$r_{b\ max}$:	1 mm
Abutment diameter inner ring	$d_{a,b\ min}$:	65.7 mm
Abutment diameter outer ring	$D_{a,b\ max}$:	90.1 mm
Inner diameter of outer ring (open side)	D_2:	84.6 mm
Bearing weight	m:	0.4 kg
Contact angle	Alpha 0:	25°



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