

Spindle ball bearing S 6208 E TXM P4+

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Components

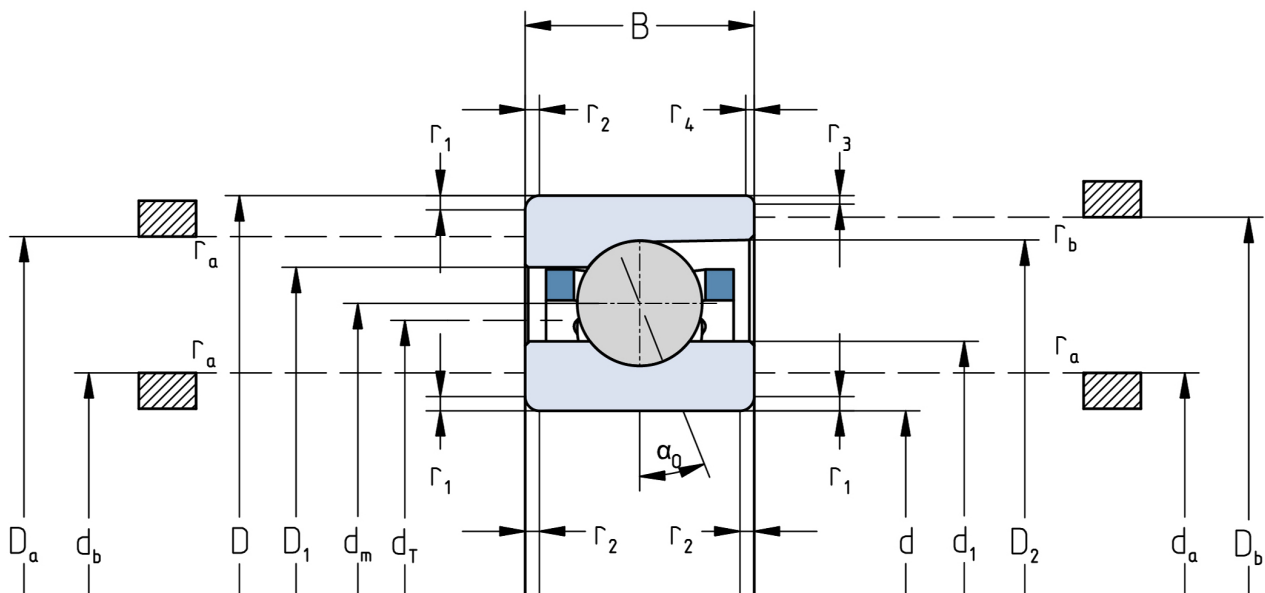
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|------------------------------|------------------------|
| Bearing designation: | S 6208 E TXM |
| Bearing design: | S |
| Series / size: | 6208 |
| Ball material: | Steel 100Cr6 |
| Cage: | TXM |
| Precision: | P4+ (UP+ Upon request) |
| Main dimensions [d x D x B]: | 40 x 80 x 18 mm |

Load data

| | |
|-----------------------|-----------------------------|
| Static load capacity | C_{0r} : 24700 N |
| Dynamic load capacity | C_r : 35000 N |
| Fatigue load limit | C_U : 1282 N |
| Speed limit | n_{grease} : 18000 1/min |
| Speed limit | n_{oil} : 24000 1/min |
| Light preload | L: 300 N |
| Axial rigidity | C_{ax} : 140 N/ μ m |
| Medium preload | M: 900 N |
| Axial rigidity | C_{ax} : 214 N/ μ m |
| Heavy preload | S: 1800 N |
| Axial rigidity | C_{ax} : 285 N/ μ m |
| Spring preload | Ff: 2430 N (for n_{max}) |

Geometrical Data

| | | | |
|--|-------------------------|--|--------------------------|
| Bore diameter | d: 40 mm | Oiling nozzle position | d_T : 56.9 mm |
| Outer diameter | D: 80 mm | Pitch circle diameter | d_m : 60 mm |
| Width of single bearing | B: 18 mm | Inner diameter of outer ring | D_1 : 67.6 mm |
| Ball diameter | D_w : 11.906 mm | Undercut of associated component | $r_{a \max}$: 1 mm |
| Number of balls | Z: 13 | Undercut of associated component (open side) | $r_{b \max}$: 0.6 mm |
| Chamfer (min) | $r_{1,2 \min}$: 1.1 mm | Abutment diameter inner ring | $d_{a,b \min}$: 47 mm |
| Chamfer (min), open side | $r_{3,4 \min}$: 0.6 mm | Abutment diameter outer ring | $D_{a,b \max}$: 74.6 mm |
| Outer diameter of inner ring | d_1 : 52.8 mm | Inner diameter of outer ring (open side) | D_2 : 72.1 mm |
| Outer diameter of inner ring (open side) | d_2 : - | Bearing weight | m: 0.365 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.