

**FAG****B7036-E-T-P4S-UL**

Spindle bearing

Spindle bearing B70..-E, adjusted, in pairs or sets, contact angle $\alpha = 25^\circ$, restricted tolerances

Technical information



Your current product variant

| | | |
|-------------------------|---------|--|
| Preload class | L | Preload light |
| Contact angle | E | Contact angle 25° |
| Tolerance class | P4S | Tolerance class P4S, FAG standard better than P4 to ISO 492:2023 |
| Sealing | Without | Not sealed |
| Cage | T | Laminated fabric cage |
| Arrangement bearing set | U | Single bearing |

Main Dimensions & Performance Data

| | | |
|-----------------|-------------|---------------------------------------|
| d | 180 mm | Bore diameter |
| D | 280 mm | Outside diameter |
| B | 46 mm | Width |
| C_r | 236.000 N | Basic dynamic load rating, radial |
| C_{0r} | 193.000 N | Basic static load rating, radial |
| C_{ur} | 13.500 N | Fatigue load limit, radial |
| n_G Grease | 4.300 1/min | Limiting speed for grease lubrication |
| n_G Oil | 6.700 1/min | Limiting speed for oil lubrication |
| $\approx m$ | 8,639 kg | Weight |





Mounting dimensions

| | | |
|----------------|----------|---|
| d_a | 196 mm | Diameter shaft shoulder |
| d_a | h12 | Diameter shaft shoulder clearance |
| D_a | 264 mm | Shoulder diameter outer ring |
| D_a | H12 | Shoulder diameter outer ring clearance |
| $r_{a \max}$ | 2,1 mm | Maximum recess radius |
| $r_{a1 \max}$ | 1 mm | Maximum recess radius |
| $E_{tk \min}$ | 210,9 mm | Minimum diameter injection pitch |
| $E_{tk \max}$ | 221,9 mm | Maximum diameter injection pitch |
| $E_{tk1 \min}$ | 210,9 mm | Minimum diameter injection pitch |
| $E_{tk1 \max}$ | 221,9 mm | Maximum diameter injection pitch |
| a | 76,6 mm | Distance between the apexes of the pressure cones |

Dimensions

| | | |
|--------------|--------|---------------------------|
| r_{\min} | 2,1 mm | Minimum chamfer dimension |
| $r_{1 \min}$ | 2,1 mm | Minimum chamfer dimension |
| α | 25 ° | Contact angle |

Temperature range

| | | |
|------------|--------|----------------------------|
| T_{\min} | -30 °C | Operating temperature min. |
| T_{\max} | 100 °C | Operating temperature max. |



Additional information

| | | |
|-----------|----------------|-----------------------|
| F_{VL} | 2.326 N | Preload force light |
| F_{VM} | 7.493 N | Preload force medium |
| F_{VH} | 15.324 N | Preload force heavy |
| K_{aEL} | 6.760 N | Lift-off force light |
| K_{aEM} | 22.418 N | Lift-off force medium |
| K_{aEH} | 47.204 N | Lift-off force heavy |
| c_{aL} | 429 N/ μ m | Axial rigidity light |
| c_{aM} | 665 N/ μ m | Axial rigidity medium |
| c_{aH} | 888 N/ μ m | Axial rigidity heavy |

Characteristics

-  Radial load
-  Axial load in one direction
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed