

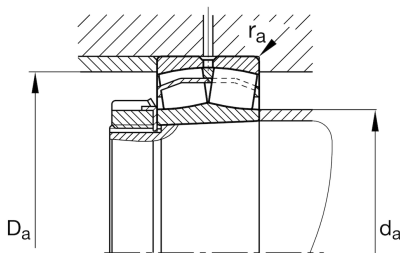
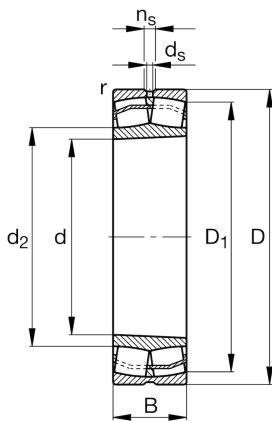
★ 23024-E1-XL-K-TVPB

Spherical roller bearing

Schaeffler ID:
0190064620000Spherical roller bearings 230...E1-K, main
dimensions to DIN 635-2, with tapered
bore, taper 1:12

★ Preferred product

Technical information



Temperature range

| | | |
|-----------|----------|----------------------------|
| T_{min} | -30 °C | Operating temperature min. |
| T_{max} | 120 °C | Operating temperature max. |
| | 3,705 kg | Weight |

Main Dimensions & Performance Data

| | | |
|----------|-------------|-----------------------------------|
| d | 120 mm | Bore diameter |
| D | 180 mm | Outside diameter |
| B | 46 mm | Width |
| C_r | 430.000 N | Basic dynamic load rating, radial |
| C_{0r} | 580.000 N | Basic static load rating, radial |
| C_{ur} | 60.000 N | Fatigue load limit, radial |
| n_G | 3.950 1/min | Limiting speed |
| n_{gr} | 2.800 1/min | Reference speed |

Dimensions

| | | |
|-----------|----------|------------------------------------|
| r_{min} | 2 mm | Minimum chamfer dimension |
| D_1 | 164,7 mm | Bore diameter outer ring |
| d_2 | 133 mm | Raceway diameter of the inner ring |
| d_s | 3,2 mm | Diameter lubrication hole |
| n_s | 6,5 mm | Width of lubricating groove |

Mounting dimensions

| | | |
|-------------|----------|---------------------------------------|
| $d_{a min}$ | 128,8 mm | Minimum diameter shaft shoulder |
| $D_{a max}$ | 171,2 mm | Maximum diameter of housing shoulder |
| $r_{a max}$ | 2 mm | Maximum recess radius |
| $B_{a min}$ | 7 mm | Minimum cavity width of the sleeve |
| $d_{a max}$ | 133 mm | Maximum diameter of shaft shoulder |
| $d_{b min}$ | 127 mm | Minimum cavity diameter of the sleeve |

Additional information

| | | |
|----------------|---------|--|
| | H3024 | Adapter sleeve |
| e | 0,22 | Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y |
| Y ₁ | 3,04 | Dynamic axial load factor |
| | AHX3024 | Withdrawal sleeve |
| Y ₂ | 4,53 | Dynamic axial load factor |
| Y ₀ | 2,97 | Static axial load factor |