

FAG

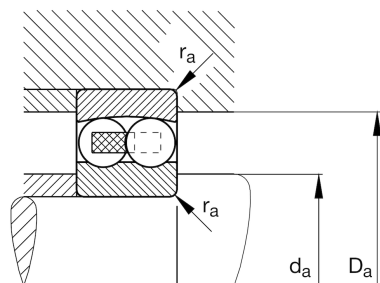
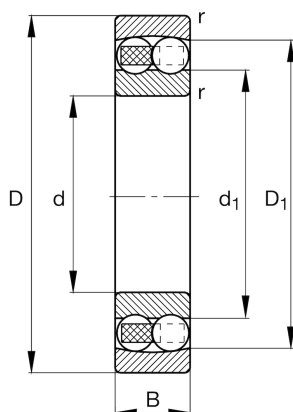
★ 1203-TVH

Self-aligning ball bearing

Schaeffler ID:
0167002520000Self-aligning ball bearing 12..-TVH, plastic
cage

★ Preferred product

Technical information



Temperature range

| | | |
|------------|----------|----------------------------|
| T_{\min} | -30 °C | Operating temperature min. |
| T_{\max} | 120 °C | Operating temperature max. |
| | 0,073 kg | Weight |

Main Dimensions & Performance Data

| | | |
|------------|--------------|-----------------------------------|
| d | 17 mm | Bore diameter |
| D | 40 mm | Outside diameter |
| B | 12 mm | Width |
| r_{\min} | 0,6 mm | Minimum chamfer dimension |
| C_r | 8.100 N | Basic dynamic load rating, radial |
| C_{0r} | 2.010 N | Basic static load rating, radial |
| C_{ur} | 128 N | Fatigue load limit, radial |
| n_G | 21.800 1/min | Limiting speed |
| n_{gr} | 17.400 1/min | Reference speed |

Dimensions

| | | |
|-------|---------|------------------------------|
| D_1 | 32 mm | Shoulder diameter outer ring |
| d_1 | 23,7 mm | Shoulder diameter inner ring |

Mounting dimensions

| | | |
|--------------|---------|--------------------------------------|
| $d_{a \min}$ | 21,2 mm | Minimum diameter shaft shoulder |
| $D_{a \max}$ | 35,8 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 0,6 mm | Maximum fillet radius |

Calculation factors

| | | |
|-------|------|---|
| e | 0,33 | Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y |
| Y_1 | 1,93 | Dynamic axial load factor |
| Y_2 | 2,98 | Dynamic axial load factor |
| Y_0 | 2,02 | Static axial load factor |