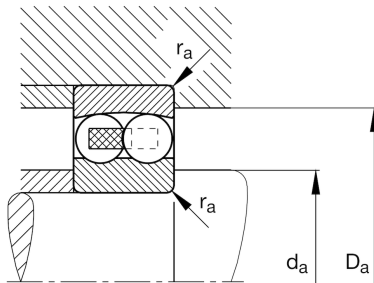
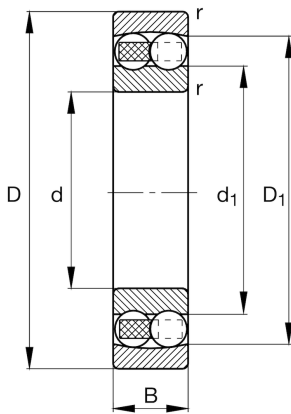


**FAG****1220-M-C3**

Self-aligning ball bearing

Self-aligning ball bearing 12..-M, solid brass cage

Technical information

**Main Dimensions & Performance Data**

| | | |
|-------------|-------------|-----------------------------------|
| d | 100 mm | Bore diameter |
| D | 180 mm | Outside diameter |
| B | 34 mm | Width |
| C_r | 70.000 N | Basic dynamic load rating, radial |
| C_{0r} | 29.500 N | Basic static load rating, radial |
| C_{ur} | 1.590 N | Fatigue load limit, radial |
| n_G | 6.000 1/min | Limiting speed |
| n_{gr} | 4.500 1/min | Reference speed |
| $\approx m$ | 4 kg | Weight |

Mounting dimensions

| | | |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 112 mm | Minimum diameter shaft shoulder |
| $D_{a \max}$ | 168 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 2,1 mm | Maximum fillet radius |

Dimensions

| | | |
|------------|----------|------------------------------|
| r_{\min} | 2,1 mm | Minimum chamfer dimension |
| D_1 | 155,2 mm | Shoulder diameter outer ring |
| d_1 | 127,3 mm | Shoulder diameter inner ring |

Temperature range

| | | |
|------------|--------|----------------------------|
| T_{\min} | -30 °C | Operating temperature min. |
| T_{\max} | 150 °C | Operating temperature max. |

Calculation factors

| | | |
|-------|------|--------------------------------------------------------------------------------------|
| e | 0,18 | Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y |
| Y_1 | 3,58 | Dynamic axial load factor |
| Y_2 | 5,53 | Dynamic axial load factor |
| Y_0 | 3,75 | Static axial load factor |