

FAG

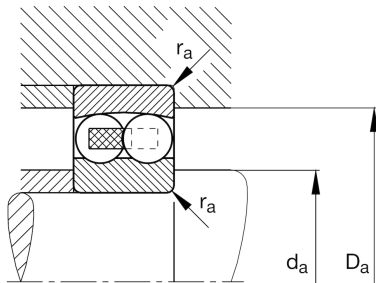
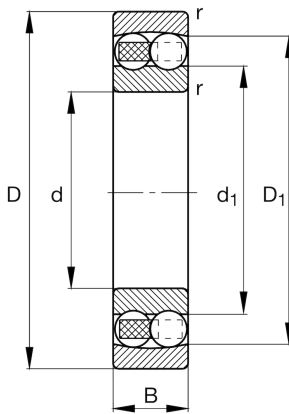
★ 2219-M

Self-aligning ball bearing

Schaeffler ID:
0190060630000Self-aligning ball bearing 22..-M, solid
brass cage

★ Preferred product

Technical information



Temperature range

| | | |
|------------|---------|----------------------------|
| T_{\min} | -30 °C | Operating temperature min. |
| T_{\max} | 150 °C | Operating temperature max. |
| | 4,22 kg | Weight |

Main Dimensions & Performance Data

| | | |
|------------|-------------|-----------------------------------|
| d | 95 mm | Bore diameter |
| D | 170 mm | Outside diameter |
| B | 43 mm | Width |
| r_{\min} | 2,1 mm | Minimum chamfer dimension |
| C_r | 84.000 N | Basic dynamic load rating, radial |
| C_{0r} | 34.500 N | Basic static load rating, radial |
| C_{ur} | 1.890 N | Fatigue load limit, radial |
| n_G | 6.100 1/min | Limiting speed |
| n_{gr} | 5.000 1/min | Reference speed |

Dimensions

| | | |
|-------|----------|------------------------------|
| D_1 | 147,9 mm | Shoulder diameter outer ring |
| d_1 | 118,9 mm | Shoulder diameter inner ring |

Mounting dimensions

| | | |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 107 mm | Minimum diameter shaft shoulder |
| $D_{a \max}$ | 158 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 2,1 mm | Maximum fillet radius |

Calculation factors

| | | |
|-------|------|---|
| e | 0,27 | Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y |
| Y_1 | 2,33 | Dynamic axial load factor |
| Y_2 | 3,61 | Dynamic axial load factor |
| Y_0 | 2,45 | Static axial load factor |