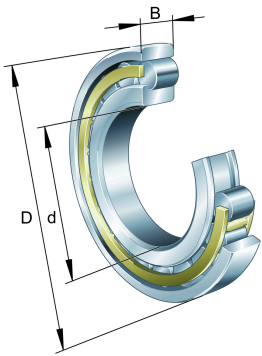


**FAG****N309-E-XL-M1-C3** [↗](#)

Cylindrical roller bearing

Cylindrical roller bearing N3..-E-M1, with cage, single row, non-locating bearing, 0 ribs on outer ring, 2 rib on inner ring, type N3

Technical information

**Your current product variant**

| | | |
|---------------------------|--------------|------------------------------------|
| Cage | M1 | Two Piece Brass Cage Roller Guided |
| Tolerance class | PN | Normal (ISO 492:2023) |
| Change mark | E | Increased Capacity Design |
| Radial internal clearance | C3 (Group 3) | Internal clearance larger than CN |
| Number of rows | 1 | Single-row design |

Main Dimensions & Performance Data

| | | |
|-------------|-----------|-----------------------------------|
| d | 45 mm | Bore diameter |
| D | 100 mm | Outside diameter |
| B | 25 mm | Width |
| C_r | 116,000 N | Basic dynamic load rating, radial |
| C_{0r} | 99,000 N | Basic static load rating, radial |
| C_{ur} | 17,300 N | Fatigue load limit, radial |
| $\approx m$ | 0.98 kg | Weight |

Mounting dimensions

| | | |
|-------|-------|--|
| d_a | 54 mm | Diameter shaft shoulder |
| | 54 | Diameter shaft shoulder tolerance |
| D_a | 91 mm | Diameter of housing shoulder |
| | 91 | Diameter of housing shoulder tolerance |

Dimensions

| | | |
|---|---------|-----------------------------|
| E | 88.5 mm | Raceway diameter outer ring |
|---|---------|-----------------------------|




Temperature range

T_{min} -30 °C Operating temperature min.

T_{max} 150 °C Operating temperature max.

Characteristics

 Radial load

 Grease Lubrication

 Oil Lubrication

 Not sealed