



Technical information



Your current product variant

| | | |
|---------------------------|--------------|-----------------------------------|
| Design | E1 | Without central rip |
| Bore type | Z | Cylindrical |
| Cage | TVPB | Plastic cage |
| Radial internal clearance | C4 (Group 4) | Internal clearance larger than C3 |
| Relubrication | Standard | |



Main Dimensions & Performance Data

| | | |
|----------|-------------|-----------------------------------|
| d | 180 mm | Bore diameter |
| D | 280 mm | Outside diameter |
| B | 74 mm | Width |
| C_r | 1.040.000 N | Basic dynamic load rating, radial |
| C_{0r} | 1.450.000 N | Basic static load rating, radial |
| C_{ur} | 173.000 N | Fatigue load limit, radial |
| n_G | 2.600 1/min | Limiting speed |
| n_{gr} | 1.760 1/min | Reference speed |
| m | 15,669 kg | Weight |



Mounting dimensions

| | | |
|--------------|----------|--------------------------------------|
| $d_{a \min}$ | 190,2 mm | Minimum diameter shaft shoulder |
| $D_{a \max}$ | 269,8 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 2,1 mm | Maximum recess radius |

Dimensions

| | | |
|------------|----------|------------------------------------|
| r_{\min} | 2,1 mm | Minimum chamfer dimension |
| D_1 | 254,3 mm | Bore diameter outer ring |
| d_2 | 201,8 mm | Raceway diameter of the inner ring |
| d_s | 8 mm | Diameter lubrication hole |
| n_s | 15 mm | Width of lubricating groove |

Temperature range

| | | |
|------------|--------|----------------------------|
| T_{\min} | -30 °C | Operating temperature min. |
| T_{\max} | 120 °C | Operating temperature max. |

Calculation factors

| | | |
|-------|------|--|
| e | 0,23 | Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y |
| Y_1 | 2,9 | Dynamic axial load factor |
| Y_2 | 4,31 | Dynamic axial load factor |
| Y_0 | 2,83 | Static axial load factor |



Characteristics



Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Oil Lubrication



Not sealed



Static angular error and misalignment



Dynamic angular error and misalignment