

**FAG****63005-A-2RSR**

Deep groove ball bearing

Deep groove ball bearing 630..-A-2RSR,  
single row, seals, steel sheet metal cage

## Technical information

**Your current product variant**

|                                  |                    |   |
|----------------------------------|--------------------|---|
| Changed internal design          | A                  | Design variant A                        |
| Sealing                          | 2RSR               | Contact seal on both sides              |
| Cage                             | JN                 | Steel sheet metal                       |
| Tolerance class                  | PN                 | Normal (ISO 492:2023)                   |
| Dimensional / heat stabilization | SN                 | Rings dimensional stabilized up to 120° |
| Lubricant                        | Lubricating grease |   |
| Radial internal clearance        | CN (Group N)       | Normal internal clearance               |
| Bore type                        | Z                  | Cylindrical                             |

**Main Dimensions & Performance Data**

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 25 mm       | Bore diameter                     |
| D               | 47 mm       | Outside diameter                  |
| B               | 16 mm       | Width                             |
| C <sub>r</sub>  | 10,400 N    | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 5,800 N     | Basic static load rating, radial  |
| C <sub>ur</sub> | 365 N       | Fatigue load limit, radial        |
| n <sub>G</sub>  | 8,500 1/min | Limiting speed                    |
| ≈m              | 0.102 kg    | Weight                            |



### Mounting dimensions

|              |         |                                      |
|--------------|---------|--------------------------------------|
| $d_{a \min}$ | 28.2 mm | Minimum diameter shaft shoulder      |
| $D_{a \max}$ | 43.8 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 0.6 mm  | Maximum fillet radius                |

### Dimensions

|            |          |                              |
|------------|----------|------------------------------|
| $r_{\min}$ | 0.6 mm   | Minimum chamfer dimension    |
| $D_1$      | 40.14 mm | Shoulder diameter outer ring |
| $D_2$      | 42.8 mm  | Caliber diameter outer ring  |
| $d_1$      | 31.56 mm | Shoulder diameter inner ring |

### Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -20 °C | Operating temperature min. |
| $T_{\max}$ | 100 °C | Operating temperature max. |

### Calculation factors

|       |      |                    |
|-------|------|--------------------|
| $f_0$ | 14.4 | Calculation factor |
|-------|------|--------------------|

### Characteristics

|   |  |
|---|--|
|  | Radial load                                    |
|  | Axial load in one direction                    |
|  | Axial load in two directions                   |
|  | Lifetime lubrication, freedom from maintenance |
|  | Grease Lubrication                             |
|  | Sealed on both sides                           |